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<141> 1998-09-17  
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<151> 1997-08-19

<150> US 60/060,862

<151> 1997-10-02

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<170> PatentIn Ver. 2.0

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<210> 17  
 <211> 683  
 <212> DNA  
 <213> Homo sapiens

<400> 17						
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tattcaaata	cttcaaattt	gcacagtgat	ttatttctta	aaatatgtta	acacatgtga	600
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<210> 18  
 <211> 1054  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (74)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1014)  
 <223> n equals a,t,g, or c

<400> 18						
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 <211> 1393  
 <212> DNA  
 <213> Homo sapiens  
  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (376)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (447)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (782)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (1379)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1383)  
 <223> n equals a,t,g, or c

<400> 19						
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<210> 20
<211> 1215
<212> DNA
<213> Homo sapiens

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<220>
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<222> (15)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (61)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (65)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (104)
<223> n equals a,t,g, or c

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<220>
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<222> (180)
<223> n equals a,t,g, or c

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<210> 21
<211> 2042

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<212> DNA  
<213> Homo sapiens

<400> 21  
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<210> 22  
<211> 1872  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1871)  
<223> n equals a,t,g, or c

<400> 22  
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aaaaaaaaac	nt					1872

<210> 23  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (284)  
 <223> n equals a,t,g, or c

<400> 23						
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<210> 24  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (44)  
 <223> n equals a,t,g, or c

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ctttgtaata	aagttagaaaa	gctctcctca	aaaaaaaaaa	aaaaaaactc	gag	3533

<210> 25  
 <211> 1148  
 <212> DNA  
 <213> Homo sapiens

<400> 25						
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aacctgtttt	aaaatttttag	ggatcttttac	ttggtcatac	atgaaaagta	cactgcttag	180
aaattataga	ctattatgat	ctgtccacag	tgcccatgtg	cacttctttg	tctcatattct	240
tcccttttgt	ccttagtcat	ccaaataagc	ctgaaaacca	taagagatat	tacttttattg	300
aatatgggtg	gcattaaatt	tagcattttca	ttatctaaca	aaattaatat	aaattccagg	360
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agcagattca	tgaaagtaaa	tttagtccta	taatttttcag	cttaattata	aacaaaggaa	480
caaataagtg	gaaggggcagc	tattaccatt	cgcttagtca	aaacattcgg	ttactgccct	540
ttaatacact	cctatcatca	gcacttccac	catgtattac	aagtcttgac	ccatccctgt	600
cgtaactcca	gtaaaagtta	ctgttactag	aaaattttta	tcaattaact	gacaaatagt	660

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tttgaatcga	ggtttttttg	ttttgttttg	ttttctgaaa	aaatcataca	actttgtgct	780
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ttagtgaacc	ttggttaggtt	aaagggttgca	ttattttatac	ttgagattttt	tttcccctaa	960
ctattctgtt	ttttgtactt	taaaactatg	ggggaaatat	cactgggtctg	tcaagaaaca	1020
gcagtaatta	ttactgagtt	aaattgaaaa	gtccagtgga	ccaggcattt	cttatataaa	1080
taaaattggt	ggtactaatg	tgaaaaaaa	aaaaaaaaa	aactcgaggg	gggcccggta	1140
ccctatta						1148

<210> 26  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
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cgcccagtc	tgaccctgcg	cccctcactc	ctcccgtctc	atctgctgct	gctgctgctg	120
ctcagtgccg	cggtgtgccg	ggctgagget	gggctcgaaa	ccgaaagtcc	cgctccggacc	180
ctccaagtgg	agaccctggt	ggagccccc	gaacctatgt	ccgagcccg	tgcttttgg	240
gacacgcttc	acatacacta	cacgggaagc	ttggtagatg	gacgtattat	tgacacctcc	300
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cagagtcttc	tcgacatgtg	tgtgggagag	aagcgaaggg	caatcattcc	ttctcacttg	420
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agaaaggcca	atagacccaa	agtctccaaa	aagaagctca	aggaagagaa	acgaaacaag	660
agcaaaaaga	aataataaat	aataaatttt	aaaaaaaaa	aaaaaaaaa	aaaaaaa	717

<210> 27  
 <211> 1099  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1030)  
 <223> n equals a,t,g, or c

<400> 27						
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cgcccagtc	atgctgctgc	acagcaagct	cttcaccgat	gcctcgtccc	gcagcatcgg	120
ggccctcaac	aagatcaact	tcaacacccg	ctttgtcatg	aagacgctca	tgaccatctg	180
ccctggcact	gtgctgctcg	tgttcagcat	ctctctgtgg	atcattgctg	cctggaccgt	240
ccgtgtctgt	gaaagtccctg	aatcaccagc	ccagccttct	ggctcatcac	ttctgcttg	300
gtaccatgac	cagcaggacg	taactagtaa	ctttctgggt	gccatgtggc	tcattctccat	360
cacattccctt	tccattgggtt	atggggacat	ggtgccccac	acatactgtg	ggaaagggtgt	420
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taaacacaca	aagctgctaa	agaagattga	ccatgccaaa	gtgaggaaac	accagaggaa	660
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gccagcagca	gcagcagctc	ctgtctgcca	tcacgagggc	ccggggtgtc	agcgtggcag	960
tgggcaccac	ccacacccca	atctccgata	gccccattgg	ggtcagctcc	acctccttcc	1020
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aaaaaaaaa	aaaaaaaaa					1099

<210> 28

<211> 941  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (864)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (897)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (938)  
 <223> n equals a,t,g, or c

<400> 28  
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 tgatgtcatg agtaacacca ctgtgcccaa tgccccccag gccaacagcg actccatggt 180  
 gggctatgtg ttggggccct tcttcctcat caccctggtc ggggtgggtg tggctgtggt 240  
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 cctcactgcc cccaggcctt ctgccctttg tgggtgttga gctcacgcc caccacagg 660  
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<210> 29  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
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 gtaagcagag gataaacaac tggaaggaga gcaagcacia agtcatcatg gcttcagcgt 180  
 ctgctcgtgg aaaccaagat aaagatgccc attttccacc accaagcaag cagagcctgt 240  
 tgttttgtcc aaaatcaaaa ctgcacatcc acagagcaga gatctcaaag attatgcgag 300  
 aatgtcagga agaaaagttt tggaagagag ctctgccttt ttctcttgta agcatgcttg 360  
 tcacccaggg actagtctac caaggttatt tggcagctaa ttctagattt ggatcattgc 420  
 ccaaagttgc acttgctggg ctcttgggat ttggccttgg aaaggatatca tacataggag 480  
 tatgccagag taaattccat ttttttgaag atcagctccg tggggctggg tttggtccac 540  
 agcataacag gcactgcctc cttacctgtg aggaatgcaa aataaagcat ggattaagtg 600  
 agaaggagga ctctcagcct tcagcttcct aaattctgtg tctgtgactt tcgaagtttt 660  
 ttaaacctct gaatttgtac acatttaaaa tttcaagtgt actttaaaat aaaatacttc 720  
 taatggaaaa aaaaaaaaaa aaaaaaaaaa actcga 756

<210> 30  
 <211> 2100  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)  
 <223> n equals a,t,g, or c

<400> 30  
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 gccttgatag tgtctcccca tggcttccac tggcaaaagc atgggttaccy gaggtgatga 300  
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 gcatccaaac atggctttga attggttagaa cttagtccag aggagttgcc tgaggaggat 420  
 gatgacttcc cagaatctac aggagttaaag cgaattgtcc aagccctgaa tgccaatgtg 480  
 tggccaatg tagtgatgaa gaatgatagg aaccaaggct ttagcttgct gcaactcatt 540  
 gactggaaca aaccatagca ttgggtcagc agatccctgt caccagagc aaccccatctt 600  
 gccagcagca gatagtactg aatccctctc tgatcatcgg ggtgggtgcat ctaacacaaac 660  
 agatgccccg gttgatagca ttgtggatcc catgttagat ctggatattc aagaatttagc 720  
 cagctcttacc cctcctcact cagcccagtc gaattttgaa agactctttt caaagttaaa 780  
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 caagcctgta acctcggagg actatctttt gttctttatc ctttgtcttg tttgagtggg 1980  
 tcagcccag aggaactgat aagcaaatgg caagttttta aaggaagagt ggaagact 2040  
 gcaataaaaa atccttattt gtttttgtag aaaaaaaaaa aaaaaaaaaa aaaaaaaag 2100

<210> 31  
 <211> 1448  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
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 ggattatcga gcattgtgtt ttttccatagt gcccttttcc ttatttcaag ggttgcttct 120  
 gagggtgtgt tttttttttt ttaatttgtt ttgtttttaa ataagttaaa gacagtccag 180  
 agctttttcag ccaatttgtc tctactctg tgtaaatatt ttccctccg ggcaggggag 240  
 ccagggtaga gcaaaggaga caagcaggag tgggaaggtg ggcgttctcc tgcttgtagt 300  
 aagccaggag stttaagctc cagctttaag ggttgtgagc ccttgggggt tcagggaact 360  
 gcttgcccag ggtgcagtgt gagtgtgatg gggcacccgg gcaagaggga aggtgaccgc 420  
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 agacaaggag agcggaggag gaagtcattg gaacgcagcc tccagtgtga gcaggtttca 600  
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 ttgggccaat gctttcatcc tgtgtccctt gacctgtcca ggtgagtgtg agggcagcac 720  
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tgttttattt	tgggaattgg	gtatatcatg	aagccttgct	gaactaagtt	ttgtgtgtat	1260
atatttaaaa	aaaaaatcag	tgtttaaata	aagacctatg	tacttaatcc	tttaactctg	1320
cggatagcat	ttggtaggta	gtgattaact	gtgaataata	aatacacaat	gaattcttma	1380
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaacccccgg	ggggggccccg	ggccccaatt	1440
ccccccaa						1448

<210> 32  
 <211> 456  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (444)  
 <223> n equals a,t,g, or c

<400> 32						
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tcctgggtgct	ccactctgcc	cagggagcca	ccctgggtgg	tcctgaggaa	gaaagcacca	120
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attctcaacc	taccataact	ctttcctgcc	tcaggaaactc	caataaaaaca	ttttccatcc	420
aaaaaaaaaa	aaaaaaaaaa	cccngggggg	gccccg			456

<210> 33  
 <211> 1326  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (352)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1324)  
 <223> n equals a,t,g, or c

<400> 33						
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atgggtggtag	ccaagaagac	tgacatttta	gggaacagga	cggggaggag	aaggctctgg	180
cacacacaca	tgtgtccata	tgtcctgcaa	tggctctggg	actattgcta	ggctaggagc	240
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aaanaa						1326

<210> 34  
 <211> 710  
 <212> DNA  
 <213> Homo sapiens

<400> 34						60
gcgaaagaga	aaaaggctgg	agctcccgcc	cccggggctg	tcagatgget	tgggtttctg	120
cgacgcgatt	ggctcgcgga	gggcagaaat	tactcagcaa	acatgactat	tattagctgc	180
ttagcaacag	ctcaccaaaag	tagagagacc	accaggttag	gcaacccagt	gtgtgcatcc	240
tgggcttcgg	ggcagcctct	gagagcgcca	accttctcgc	atgcaatact	tccattaagg	300
aatgctcccc	ctcctttctc	tcttattcct	ttctttttca	acagtgtctt	ctttttgtgg	360
gatgcctttg	cgcgcacaca	cgcgcgcgca	sgcacacaca	cgaacatttg	cctcgcggta	420
gacacggggg	gaaatgtwat	atTTTTTTaa	gcgcttaaac	aattttctgaa	attcctcaaa	480
gaaaagcctt	tcagargcac	cttggcctca	agctgcaaca	ataactggga	rgtccggctc	540
gcattccag	gcctgcacca	ataatgacag	cgtgctggat	artgcgccag	tgtgtgccag	600
attttttttt	cctctttctc	tttcttttat	aactaaagg	aagacttagg	ctcttgagg	660
gaacaacgcc	tcgcattaag	ataaacagaa	tggaaagtta	aagaggaaag	caaggacgtt	710
gggaaaagcc	atctttctta	aaatcctct	gccccccagc	cgctttctcc		

<210> 35  
 <211> 1188  
 <212> DNA  
 <213> Homo sapiens

<400> 35						60
gatggctttt	atatctatta	tcgaccacaca	gacagtgaca	atgatagtga	ctacaagaag	120
gatatggtgg	aaggggacaa	gtactggcac	tccatcagcc	acctgcagcc	agagacctcc	180
tacgacatta	agatgcagtg	cttcaatgaa	ggaggggaga	gcgagttcag	caacgtgatg	240
atctgtgaga	ccaaagctcg	gaagtcttct	ggccagcctg	gtcgactgcc	acccccaaact	300
ctggccccac	cacagccgcc	ccttcctgaa	accatagagc	ggccggtggg	cactggggcc	360
atgggtggct	getccagcga	cctgccctat	ctgattgtcg	gggtcgtcct	gggtccatc	420
gttctcatca	tcgtcacctt	catccccctt	tgtttgtgga	gggcctggtc	taagcaaaaa	480
catacaacag	acctgggttt	tcctcgaaat	gcccttccac	cctcctgccc	gtatactatg	540
gtgccatttg	gaggactccc	aggccaccag	gcagtggaca	gccctacctc	agtggcatca	600
gtggacgggc	ctgtgctaata	gggatccaca	tgaatagggg	ctgcccctcg	gctgcagtg	660
gctaccgggg	catgaagccc	cagcagcact	gcccaggcga	gcttcagcag	cagagtga	720
ccagcagcct	gctgaggcag	acccatcttg	gcaatggata	tgacccccaa	agtcaccaga	780
tcacgagggg	tcccaagtct	agcccggacg	agggctcttt	cttatacaca	ctgcccgcag	840
actccactca	ccagctgctg	cagccccatc	acgactgctg	ccaacgcccag	gagcagcctg	900
ctgstgtggg	cgagtcaggg	gtgaggagag	cccccgacag	tcctgtcctg	gaagcagtg	960
gggaccctcc	atcttactca	gggcccccat	gctgcttggg	ccttgtgcca	gttgaagagg	1020
tggacagtcc	tgactcctgc	caagtgaagt	gaggagactg	gtgtccccag	caccccgtag	1080
gggcctacgt	aggacaggaa	cctggaatgc	agctctcccc	ggggccactg	gtgcgtgtgt	1140
cttttgaac	accacctctc	acaatttagg	cagaagctga	tatcccagaa	agactatata	1188
ttgttttttt	tttaaaaaaa	aaaaaaaaaa	awcyggggg	ggggcccc		

<210> 36  
 <211> 956  
 <212> DNA  
 <213> Homo sapiens

<220>

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<210> 38
<211> 1089
<212> DNA
<213> Homo sapiens
```

```
<210> 39
<211> 629
<212> DNA
<213> Homo sapiens
```

```
<210> 40
<211> 1964
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (476)
<223> n equals a,t,g, or c
```

<400>	40						
aagaagacat	ggaaattgct	gaaggatggt	tcaggcatat	taagaaaatc	tttacgcagc		60
ttgaggaatt	cgagacccct	gaattgcttc	gaagtggact	ggacagatct	aaataccttt		120
tagtgaaga	agccaaaatt	attgctatga	cctgtactca	tgctgcctta	aaacgacatg		180
acttggtcaa	gctaggtttc	aagtatgaca	acattttgat	ggaagaggct	gctcagattc		240
tggagataga	aacttttatc	cctcttcttc	tacagaatcc	tcaggatgga	tttagccgac		300
taaaacgatg	gattattgat	ggcgatcatc	accagttacc	tccagttatt	aangaacatg		360
gccttctaaa	agtactcaaa	catggagcag	tctctcttca	ctcgctttgt	tcgcgttggg		420

```

gttccgactg ttgaccttga tgctcaaggg agagccagag caagcttgtg camctnctac 480
aactggcgat acaagaatct aggaacttta ccccatgtgc agctccttgc agagttagt 540
acagcaaatg ctggcttact gtatgacttc cagctcatta atgttgaaga ttttcaagga 600
gtgggagaat ctgaacctaa tccttacttc taccagaatc ttggagaggc agaatatgta 660
gtagcacttt ttatgtacat gtgtttactt ggttaccctg ctgacaaaat cagtattcta 720
acaacatata atggccaaaa gcattcttatt cgcgacatca tcaatagacg atgtggaaac 780
aatccattga ttggaagacc aaacaagggtg acaactgttg atagatttca aggtcaacag 840
aatgactata ttcttctttc tctggtacga accagggcag tgggccatct gagggatgtc 900
cgtcgcttgg tagtggccat gtctagagcc agacttggac tttatatctt cgccagagta 960
tccctcttcc aaaactgttt tgaactgact ccagctttca gtcagctcac agctcgcccc 1020
cttcatttgc atataattcc aacagaacct ttcccaacta ctagaaagaa tggagagaga 1080
ccatctcatg aagtacaaat aataaaaaat atgcccaga tggcaaaact tgtatacaac 1140
atgtacatgc atttgataca gactacacat cattatcatc agactttatt acaactacca 1200
cctgctatgg tagaagaggg tgaggaagtt caaaatcaag aaacagaatt ggaaacagaa 1260
gaagaggcca tgactgttca agctgacatc ataccagtc caacagacac cagctgccgt 1320
caagaaactc cagcctttca aactgacacc acccccagtg agacaggagc cacttccact 1380
ccagaagcca tccctgtctt atctgagacc acccctactg tggtaggagc tgtatctgca 1440
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aactgtagtc cttctaaagg aggacatggc agtcaaaaag tctgagtaaa gctgtttttt 1560
gtattttata tttgcttctg ccattttact gtcactaatt aatgtttagt tcttatattt 1620
gttaactgat ttcggtgtct tgaatatatt tttttaaatt atgtgtatga acaattctag 1680
tttcatttgt tcaatcagaa gagcaataaa ccattccttt catgttttga tcaactgagt 1740
tgtctgtaat catacctaca ttaaaatcat tttctatgaa tatataatat atacttcaca 1800
tttttagtga acttctctaa agaagaggac agaataact ggacttaacc acgaataccc 1860
ttgagtgtcc aaattgggaa ggaactkgtt tcttcygtta tactaycaaa tgcttaaatt 1920
ckgtttcctt ttttcttacc tttgtttgct gtctttatgt aaag 1964

```

```

<210> 41
<211> 1522
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1282)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (1376)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (1462)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1492)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1501)
<223> n equals a,t,g, or c

```

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<400> 41
cgtgtccgag cgcctgggag acgctgcctc ggcccggagc cgcccgcgcc cccggggctg 60
gagggtgggc gccactggga cactgtgaac caggagtrag tccgagctgc cgcgctgccc 120
aggccatgga ctgtgaggtc aacaacggtt ccagcctcag ggatgagtg atcacaacc 180
tactggtgtt tggcttcctc caaagctgtt ctgacaacag ctccgcgaga gagctggacg 240
cactgggcca cgagctgcca gtgctggctc ccagtgggga gggctacgat gagctgcaga 300
ctgatggcaa ccgcagcagc cactcccgct tgggaagaat agaggcagat tctgaaagt 360

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aagaagacat	catccggaat	attgccagggc	acctcgccca	ggtcggggac	agcatggacc	420
gtagcatccc	tccgggcctg	gtgaacggcc	tggccctgca	gctcaggaaac	accagccggg	480
cggaggagga	cgggaacagg	gacctggcca	ctgcccctgga	gcagctgctg	caggcctacc	540
ctagagacat	ggagaaggag	aagaccatgc	tgggtgctggc	cctgctgctg	gccaagaagg	600
tggccagtc	cacgccgtcc	ttgctccgtg	atgtctttca	cacaacagtg	aattttatta	660
accagaacct	acgcacctac	gtgaggagct	tagccagaaa	tgggatggac	tgaacggaca	720
gttccagaag	tgtgactggc	taaagctcga	tgtggtcaca	gctgtatagc	tgcttccagt	780
gtagacggag	ccctggcatg	tcaacagcgt	tcctagagaa	gacaggctgg	aagatagctg	840
tgacttctat	tttaaagaca	atgttaaact	tataaccac	tttaaaatat	ctacattaat	900
atacttgaat	gaaaatgtcc	atttacacgt	atltgaatgg	ccttcatatc	atccacacat	960
gaatctgcac	atctgtaaat	ctacacacgg	tgcttttatt	tccactgtgc	aggttccccac	1020
ttaaaaatta	aattggaaag	cagggtttcaa	ggaagtagaa	acaaaataca	atlttttttg	1080
taaaaaaaa	ttactgttta	ttaaagtaca	accatagagg	atgggtcttac	agcaggcagt	1140
atcctgtttg	aggaaaagcaa	gaatcagaga	aggaacatac	cccttacaaa	tgaaaaattc	1200
cactcaaaat	agggactatc	yatcttaata	ctaaggaaac	aacaatcttc	ctgttttaaaa	1260
aaccacatgg	cacagagatt	cnagaactaaa	gtgctgcact	caaatgatgg	gaagtcccgg	1320
ccccagtaca	ccaggggctt	tggacttttt	tcaacttcgt	ttccttttgt	ttggantcca	1380
aaagaaccac	tttgtgtttc	ttaaaagggt	gtgaagggtga	tttaaggggc	ccagggtcagc	1440
cactgggttg	tttacaaaat	cnagggttaact	aactgcatac	aactttttcc	cntttccatg	1500
ncatcaggac	tttgctaaag	ac				1522

<210> 42  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

<400> 42						
tgggatttcc	ctttatcatg	gaggccttgt	cccacttcc	ctatgtccct	ttccttgggtg	60
tctgtgtctg	tggggccatc	tacactggcc	tgttccttcc	tgagaccaaa	ggcaagacct	120
tccaagagat	ctccgaggaa	ttacacagac	tcaacttccc	caggcggggc	caggggcccca	180
cgtggaggag	cctggagggt	atccagtcaa	cagaactcta	gtcccaaaag	ggtggccgta	240
gccaaagcca	gctaccgtcc	tgtcctctgc	ttcctgccag	ggccctggtc	ctcamtycct	300
yctgcattcc	tcattttaagg	agtgtttatt	gagcacccct	tgtgtgcaga	catggctcca	360
ggtgcttagc	aatcawtgg	gagcgtggta	tccaggctaa	aggtaattaa	ctgacagraa	420
atcagtaaca	acataattac	aggytgggtg	tggcagytca	tgactgtaat	cccagcactt	480
ttgggagcca	aggtggggarg	atcaattgag	gccagagttt	gaaamcagct	aggtaacata	540
gtgagacccc	ctatctctac	aaaaaatatt	aaacattagc	tgggcattgg	ggtatgtgct	600
aacagctcta	gctactcagg	aggctgaggc	agcaggatca	cttgagtcca	agagttcaag	660
gtagcagtaa	gctacaatca	caccactgca	tgccagactg	ggtgacagag	ggagacttca	720
tctcttttaa	acataataat	aataattaca	gactcaggaa	atgcagtga	agaaaaatac	780
aggttggcca	ggtgagggtg	ctgatgcctg	taatcccagc	actttgggag	gccaagatgg	840
gaagattgct	ttgagaccag	aagtttgaga	ccagc			875

<210> 43  
 <211> 843  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (14)  
 <223> n equals a,t,g, or c

<400> 43						
cccacgcggt	ccgnatcgtc	cttccctcac	ttcagagggt	ggccagagct	gaatacccg	60
agagggacaa	gtaagggtcc	agttccaaaa	catcatgagg	atgtatcatc	ccacgtgtct	120
cacctgacag	ttacagagga	aaccgcacac	cagaatgcac	gtgctgtctt	atgggaacac	180
tcagcgaga	gtgctcaggt	ccggccacac	tcgggtctgtg	cttggctcgtg	ccatggaatt	240
cctcaggact	ttctcagcct	ccctaattggc	agaagcccct	ttacagcaag	acattttaccg	300
tttgtctgaa	aatagccgaa	ctgagctttt	cttcaggcta	tatgagaagt	ctctagacag	360
tgggcaccgt	cagaaagccc	agagccttgt	gatagctccc	accctgcctg	gctcagatct	420
tcccattttt	tttccctctg	cactaacctc	accttttgtt	tttttgtgtt	tgtgtttgtt	480

tttgtttttg	cagagttgga	ttacagaaac	tcctatgaaa	ttgaatatat	ggagaaaatt	540
ggctcctcct	tacctgtaag	ttcgtctgcc	tcggggccact	taggggactc	gctttcctgc	600
cttcaggggc	ctcctcccct	gtgcagagtg	tctctgggag	ctcagacccc	aaatcgagtg	660
ttttctgtgt	acacagcttc	ccgggtgcac	agcaatgatg	gactggggct	ggggggttga	720
ggtttgtact	caatccactt	cgtttgacat	tttcagggag	aaaatgatag	aatacaatta	780
gacgtcctgc	agaattactt	tcctagactg	agaaagagct	agagatttct	ttaaaaaaaaa	840
aaa						843

<210> 44  
 <211> 489  
 <212> DNA  
 <213> Homo sapiens

<400> 44						
ctcttaggct	ttgaagcatt	tttgtctgtg	ctccctgac	ttcaggtcac	caccatgaag	60
ttcttagcag	tcctgggtact	cttgggagtt	tccatctttc	tgggtctctgc	ccagaatccg	120
acaacagctg	ctccagctga	cacgtatcca	gctactgggc	ctgctgatga	tgaagcccct	180
gatgctgaaa	ccactgctgc	tgcaaccact	gcgaccactg	ctgctcctac	cactgcaacc	240
accgctgctt	ctaccactgc	tcgtaaagac	attccagttt	tacccaaatg	ggttggggat	300
ctcccgaatg	gtagagtgtg	tccttgagat	ggaatcagct	tgagtcttct	gcaattgggc	360
acaactattc	atgcttctctg	tgatttcatc	caactactta	ccttgccctac	gatatcccct	420
ttatctctaa	tcagtttatt	ttctttcaaa	taaaaaataa	ctatgagcaa	caaaaaaaaa	480
aaaaaaaa						489

<210> 45  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (470)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (477)  
 <223> n equals a,t,g, or c

<400> 45						
gaagcagtgt	gtatctatga	ttatatctct	gttcatctat	atatttttga	catgtagcaa	60
cacctctcca	tcttatcaag	gaactcaact	cggctctggg	ctccccagtg	cccagtggtg	120
gcctttgaca	ggtaggagga	tgcagtgtctg	caggctatct	tggtttttgt	tacaaaactg	180
tcttttccct	tttcccctcc	acctgattca	gcatgatccc	tgtgagctgg	ttctcacaat	240
ctcctgggac	tgggctgagg	caggggcttc	gctctattct	ccctaaccat	actgtcttcc	300
tttccccttg	ccacttagca	gttatcccc	cagctatgcc	ttctccctcc	ctcccttgcc	360
ctggcatata	ttgtgcctta	tttatgctgc	aaatataaca	ttaaactatc	aagtgaaaaa	420
aaaaaaaaaa	aaaactccaa	ggggggggcg	gtacccaatt	ccccctatan	tgagtcntat	480
tacaattcac	tgggccgtcg	ttttacaacg	tcgtgaatgg	gaaaacctgg	gcgt	534

<210> 46  
 <211> 1374  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
ggcacgagtc	cgggatgagc	tcagccgcgg	ccgaccactg	ggcgtggttg	ctgggtgctca	60
gcttcgtgtt	tggatgcaat	gttcttagga	tcctcctccc	gtccttctca	tccttcatgt	120
ccagggtgct	gcagaaggac	gcggagcagg	agtcacagat	gagagcggag	atccaggaca	180
tgaagcagga	gctctccaca	gtcaacatga	tggacgagtt	tgccagatat	gccaggctgg	240

aaagaaagat	caacaagatg	acggataagc	tcaaaaccca	tgtgaaagct	cggacagctc	300
aattagccaa	gataaaatgg	gtgataagtg	tcgctttcta	cgtattgcag	gctgccctga	360
tgatctcact	cattttggaag	tattattctg	tcctctgtggc	tgtcgtgccc	agtaaatgga	420
taacccctct	agaccgcctg	gtagcctttc	ctactagagt	agcagggtgg	gttggaatta	480
cctgttggat	tttagtctgt	aacaaagtgt	tcgctattgt	gcttcatccg	ttcagctgaa	540
caggaggatg	gatacagccg	cgaggctaaa	aaacggattt	cctcttcccta	gcttaaaatc	600
tgatttacac	tgttttgttt	tttaagaaac	aaaagtgcac	agtttagatt	tttttttttg	660
ttgaatatgt	ttgttcttgg	actttatgag	agagtcttat	aagaatcacg	attttctaca	720
cctgtcattg	agccaagaaa	gtccagttta	tgacacgtat	gtactagtga	acaccgtcct	780
cgatctgtac	gaaatgtgaa	atgttttaggg	acatctccat	gctgtcactt	gtgatttgcc	840
ctcttatgta	ttttgggtcat	attgccaaact	ggaaagtcaa	aattttctaa	caactttaag	900
taagtctctt	gaagacttag	tgctgttttt	aatccagttt	agaaagtaac	ttaattttaa	960
taccactact	aaaaattcga	aaatttcttc	tttaatcaca	ttcaatatgg	ttaaaaagac	1020
aacactaatt	gacattgcgt	gggctttttc	tccttttgtt	taaaatgtca	tttgttgagc	1080
aagagtgtga	tagtattatc	tacttacttg	aggctgttaa	tttttcatta	cagtgttttg	1140
taaatgtatc	cacgagacca	tgatgcattg	ttttgtgctc	aacttgtgtt	ttgtatttaa	1200
agcattttga	atgaagtgtg	ttttataagc	atttaatat	tatgctcttt	agaatggaac	1260
acagaaaaca	aaccttataa	gtcctgatta	atctgaacca	ataacctgtg	tgacctacaa	1320
agtataattc	tattaaatgt	tccttaaaac	aaaaaaaaaa	aaaaaaaaaa	aaaa	1374

<210> 47  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (8)  
 <223> n equals a,t,g, or c

<400> 47						
gaattcgnc	cgagattact	tggacatgaa	agaactcagg	ttcaagttta	ttcatttact	60
aagttagtt	aatcatgtgc	cttccatgag	ccttcatttg	gtaacttgga	aaatggaaat	120
aataacact	gtcatatata	ttctacactg	ctaccatag	gaccaaaggg	attatagatt	180
acaatcacca	tcatttctgc	tgacagggtat	atagaaaaca	atttcattga	agaaaagtcc	240
ttacatttat	ccttttcccta	atatctgcat	gggtaaacta	ataaatatag	tcattagaaa	300
acccttatta	ttattattag	ttcaatgtga	gaactgctgc	agaaaaata	tgctttataa	360
tattttcttg	aatatacata	atattcataa	attttcaaat	cattgaaaat	taccttaaaa	420
ttggaaaaaa	tgtgcatttc	tactcatata	acagtataaa	attcctatgt	caatctcttt	480
tttttttttt	tgttttgagt	tggagtctcg	ctctgtcgcc	caggctgggc	aacagagcag	540
gacctgtct	taattaaaaa	aaaaaaaaaa	aaactcgagg	ggggcccggt	acccta	596

<210> 48  
 <211> 851  
 <212> DNA  
 <213> Homo sapiens

<400> 48						
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cctcatctgg	ataacctgaa	acggcaccag	cgctccata	caggagagaa	gccctacaag	120
tgccccctct	gcccttatgc	ctgtggcaat	ctggccaacc	tcaagcgta	tggtcgcatc	180
cactctgggtg	acaaaccttt	tcggtgtagc	ctttgcaact	acagctgcaa	ccagagcatg	240
aacctcaaac	gtcatatgct	gcggcacaca	ggcgagaagc	cttccgctgt	gccacctgcg	300
cctataccac	gggccaactg	gacaactaca	agcgccacca	gaagggtgat	ggccacgggtg	360
gggcaggagg	gcctggtctc	tctgcctctg	agggtggtgc	cccacctcat	agcccacctt	420
ctgtttttgag	ctctcggggc	ccaccagccc	tggggactgc	tggcagccgg	gctgtccaca	480
cagactcatc	ctgaactagg	tccttcttcc	ccatgtttta	tacagacgga	ccagaagcca	540
cctttttctc	cccgcctggc	caggggctcc	acacagacta	acgtaggcac	tataaggacc	600
agcccaacct	catgggcggg	ggggcccata	tggaccaggg	gaccttgctt	tgactgaggg	660
acttcacgag	ctcagtgaga	agggccctgt	attcacctcc	actgccccca	ggggctgtgg	720
acaaaccggc	tgggggactg	cccagcctcc	cacctgttta	tttaacttat	ttcagtgtct	780
tataataaag	gaaacactaa	caaagccatg	tctatgctga	attggcaatg	gcaggcaatt	840



tggccttacc c

851

<210> 49  
<211> 2020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1239)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature  
<222> (1587)  
<223> n equals a,t,g, or c

<400> 49  
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acacagaccc aggtgaacac gctgactgtg aacctgccct gtatccggag ctgtgctggg 180  
cactgagggg atgcaacaaa attaggagag gwtccttgct cccaacgtct acttctccta 240  
cctcaacagg ggtccagggt gcagtgaact cagttcttgg cccttgggtg aggattcatg 300  
gatgaatgaa agctagacct gatggggagg cattatgact aaataggccc agcctccttc 360  
ccttccagct ctgtcctagg agcataggcg ggaaatctga gtagagtctg actgcagttt 420  
ttgcttatga tttgtaaaag ccgtcatggg gtcaataaga aaataggggt gatggagggg 480  
gagaagccca ggactgggag aatcgacgt gccccagggg ttttcaccaa ggattttcaa 540  
gacaaactgg agtaagaatt aaagccccag aggatttaat tatcctgggt tgcaaaaagag 600  
cctcccatgc cagtaccgcc cagccttggg ggccggaatg ctcatggccc ctgtgggtctg 660  
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attagaaagg ggagmggac ttgtgacttt gtttgactct gtgactcact tcctcgctca 780  
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tccccactga agaggtctgt acagtgacaa cccgggcccg cagcaaggac acagatgcag 900  
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cagaaaatat gggcttggcc taagtgcgtg tctcctaacc tgccgggggtc attccccacc 1500  
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ggtgtccctg gcttttggg ccaaagctag tgttatgttc aacaacaggc cagggtctgt 1680  
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taagcaggtg tcagtggaca gtttaagyac ttaaccattt ctctttcttc ttatggatgt 1860  
gaactgtgct gtggataaat catttgtatt tcttgaatgt tctctatgac taacagttat 1920  
taagtcgggt gtgtatatgt gtaactaatg taactgcctt ttaaaatttc attacaataa 1980  
aaatgacttt gctctgaama aaaaaaaaaa aaaaactcga 2020

<210> 50  
<211> 2432  
<212> DNA  
<213> Homo sapiens

<400> 50  
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tgggggtctg gcagggggcca cagcaagtcg gggcgggtca aacgttcgag tacttgaaac 180

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gggagcactc gctgtcgaag ccctaccagg gtgtggggcac aggcagttcc tcaactgtgga 240
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gtaaacaggg tgcccttgtg aaccgggtgc catgtttcct gagagactgg gagttgcagg 360
tgcacttcaa aatccatgga caaggaaaga agaactctgca tggggatggc ttggcaatct 420
ggtacacaag gaatcggatg cagccagggc ctgtgttttg aaacatggac aaattttgtg 480
ggctgggagt atttgttag acctacccca atgaggagaa gcagcaagag cgggtattcc 540
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ggcctacaga gctgggaggc tgcacagcca ttgtccgcaa tcttcattac gacaccttcc 660
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agtggaggga ctgcattgaa gtgcccggag tccgcctgcc ccgcggttac tacttcggca 780
cctcctccat cactggggat ctctcagata atcatgatgt catttccttg aagtgtttg 840
aactgacagt ggagagaacc ccagaagagg aaaagctcca tcgagatgtg ttcttgccct 900
cagtggacaa tatgaagctg cctgagatga cagctccact gccgccctg agtggcctgg 960
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ggtttttgc attgacccaac cctctgccta cctgaggagc tttcttttga aaccaggatg 1560
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tgcgtttcat tggccttcat taggtggccc tagggagatg gctttctgct ttggatcact 1740
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tgccctggga ttaaatcagt tacaggccag agtctccttg gagggcctgg aactctgagt 2340
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2432

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<210> 51
<211> 2340
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)
<223> n equals a,t,g, or c

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<400> 51
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attagtatgc ggacgaagcg gcgggctgcg cggagnacg tcccctgcag ccgcggaaccg 120
aggcagcgcc ggcacctgcc ggccgagcaa tgccaagtga gtacacctat gtraaactga 180
gaagtgatgt ctgcaggcct tccctgcaat ggtacaccgg agctcaaagc aagatgagaa 240
ggcccagctt gttattaaaa gacatcctca aatgtacatt gcttgtgttt ggagtgtgga 300
tcctttatat cctcaagtta aattatacta ctgaagaatg tgacatgaaa aaaatgcatt 360
atgtggaccc tgaccatgta aagagagctc agaaatatgc tcagcaagtc ttgcagaagg 420
aatgtcgtcc caagtttggc aagacatcaa tggcgctgtt atttgagcac aggtatagcg 480
tggacttact cctttttgtg cagaaggsc ccaaagacag tgaagctgag tccaagtacg 540
atcctccttt tgggttccgg aagttctcca gtaaagtcga gaccctcttg gaactcttgc 600
cagagcacga cctccctgaa cacttgaaag ccaagacctg tcggcgctgt gtggttattg 660
gaagcggagg aatactgcac ggattagaac tggggccacac cctgaaccag ttcgatgttg 720
tgataagggt aaacagtgca ccagttgagg gatattcaga acatgttgga aataaaaacta 780
ctataaggat gacttatcca gagggcgcac cactgtctga ccttgaatat tattccaatg 840

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acttatttgt	tgctgtttta	tttaagagtg	ttgatttcaa	ctggcttcaa	gcaatggtaa	900
aaaaggaac	cctgccattc	tgggtacgac	tcttcttttg	gaagcagggtg	gcagaaaaaa	960
ttccactgca	gccaaaacat	ttcaggattt	tgaatccagt	tatcatcaaa	gagactgcct	1020
ttgracatcc	ttcagttactc	agagcctcag	tcaagggttct	gggggcccag	ataagaacgt	1080
ccccacaatc	ggtgtcattg	ccgttgtctt	agccacacat	ctgtgcgatg	aagtcagttt	1140
ggcgggtttt	ggatatgacc	tcaatcaacc	cagaacacct	ttgcaactact	tcgacagtca	1200
atgcatggct	gctatgaact	ttcagaccat	gcataatgtg	acaacggaaa	ccaagtctct	1260
cttaaagctg	gtcaaagagg	gagtgggtgaa	agatctcagt	ggaggcattg	atcgtgaatt	1320
ttgaacacag	aaaacctcag	ttgaaaatgc	aactctaaact	ctgagagctg	tttttgacag	1380
ccttcttgat	gtattttctcc	atcctgcaga	tactttgaag	tgacgtcat	gtttttaact	1440
tttaatttta	aaacacaaaa	aaaatttttag	ctcttcccac	tttttttttc	ctattttattt	1500
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agactttctca	aagagaattg	tatgtaacga	tggtgtwttg	atttttaaga	aagtaattta	1620
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ggtccctggt	cggagaggga	catagaatct	gtgacctctg	acaactgtga	agccaccctg	1980
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gtgactttaa	aaatcagaac	aaaacttcta	ttatccagag	tcattgggaga	gtacaccctt	2160
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atltaaaaaa	aagaaacttt	tctgaatgcc	tactggcggt	gtataccagg	cagtggtgcca	2280
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<210> 52  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (115)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (184)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (539)  
 <223> n equals a,t,g, or c

<400> 52						
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cttttgcctt	tcccgtagcg	cccagagagag	aatgctggac	tctgcccact	tcagcgcaac	180
taangatttc	tcaagctagg	ggacaaaacga	tcagcccaat	cctgagaagg	ggggaaccaa	240
gcaccccgtc	cccatccccc	tcccctcccc	cgactaaact	cgggcgccaa	accagccct	300
tctctaacca	ccctacttcc	tcctctcctt	tctagcatgg	tggtgtatg	gacagtctga	360
cagaacagag	actgacatct	cccaatctgc	cggcccccca	cctggaacac	tacagtgttc	420
tgcatgtcac	catgaccctg	gatgtgcaaa	ctgtagtcgt	ttttgccgtg	attgtagttc	480
tcctgcttgt	caatgtcata	ctcatgtttt	tcctgggaac	gcgctgaatg	gagtcacgnc	540
acctgagctg	tcgcgaactc	tcgctttgat	ttcatcccga	gagccaccga	gaagaaaaaa	600
a						601

<210> 53  
 <211> 359  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (343)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (347)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (349)  
 <223> n equals a,t,g, or c

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 gattaacatc tttctcttga cactgagact gggttctcct gggaatgggt agttcccaag 120  
 agagtgaagt gttataaaac aatgctgcct cttctatctt gcgctttttg tttgcacaaa 180  
 ctctgtcccc ttctgtttct ctacgatgtt ttgatgcrge atgaggcagt catgagaacc 240  
 caccagatac agctgcctga tcctgaattt cccagccaac agaaccaagt gctaaaataaa 300  
 actcttttta ataagttaaa aaaaaaaaaa aaaaaaaaaa aanaaanana aaaaaaaaaa 359

<210> 54  
 <211> 1141  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 attgatatcc agaccaggat ggctgggcga gcattggagc ttcttttatct gccagagaat 180  
 aagccctgtt acctgctgga tattggctgt ggcactgggc tgagtggaaag ttatctgtca 240  
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 aagaagtctg aaaaccctgc caagcgcttg tactgctttt ttgcttctct ttttctgtt 480  
 ctctgtccggg gatccccgag tgtcctgcag ctgtaccctg agaactcaga gcagtggag 540  
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 aacagtgcc aagcaaaagaa attctacctc tgcttgtttt ctgggccttc gacctttata 660  
 ccagaggggc tgagtgaata tcaggatgaa gttgaacca gggagtctgt gttcaccat 720  
 gagaggttcc cattaaggat gtcgaggcgg ggaatggtga ggaagagtcg ggcattgggtg 780  
 ctggagaaga aggagcggca caggcgccag ggcagggaag tcagacctga caccagtag 840  
 accggccgca agcgcaagcc ccgcttctaa gtcaccacgc ggttctggaa aggcacttgc 900  
 ctctgcactt ttctatattg ttacagtac aaagtagtat tttagaaaag ttctaaagtt 960  
 ataaaaatgt tttctgcagt aaaaaaaaaa ttctctgggc cgggcgtggt ggctcacacc 1020  
 tgtaatccca gcaccttggg aggctgaggt gggaggatca tttgaggcca ggagtttgag 1080  
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 a 1141

<210> 55  
 <211> 1560  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (8)  
 <223> n equals a,t,g, or c

<220>

<221> misc\_feature  
 <222> (1428)  
 <223> n equals a,t,g, or c

<400> 55  
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 ataataaaat tccacctttt ttcaaaatta atatagggtg agtgaagtct mccaatcatg 180  
 acrgcaragg aaatttagtg cttaaatgrac tgtgrgttac aggtaccttt cactwagggg 240  
 caggcaggtt ttataaaaa accmtgtggt aatcatcmtat tgccattaag ctctattac 300  
 tagcttttaa gaccatttta taaagattat ctggtgccta attaacaaga aagaaattag 360  
 actcaggttt aagatgctgc tgggtgtctg aaattactct gaaaggtcat tcaaagaact 420  
 tcaaacttaa aatttttcat tcatgtattt attccacagt caaaataaat caaaatttaa 480  
 agctataaca tttttaaaag ataaaggaga atttgtggca cagctgcatt aacaaaacag 540  
 acaccagtct aaagtgcac actaaacagg tattctctgt tcccacggtg gaataaatac 600  
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 tacctgcccc acaaatagag gcaggctaca ttaatttaac attttactgc aaaatggaaa 720  
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 aaaaaatttt aatttaacaa tgaaaaagga acttcaaagg gtttatgcc aaaaacaaac 1140  
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 gtgtggcaaa tatgataggt ggtgcttctg tggaaaccac aggttttnaa tctgcggtct 1440  
 ataggcctcc gaagcccatg ctctgtgcaa cttctgctg aagccactaa acttgtagta 1500  
 catgacgccc agagtccggc ttcccgcatc cgctgccaac gcgaccgcc cagagaagga 1560

<210> 56  
 <211> 1507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1047)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1301)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1507)  
 <223> n equals a,t,g, or c

<400> 56  
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 cccagacgc aggcctcat ggccaggga ggggtgcacca ggccggcccc ctgagcgacg 180  
 ctcccatga tgacgccac gggaacttcc agtacgacca tgaggctttc ctgggacggg 240  
 aagtggccaa ggaattcgac caactcaccc cagaggaag ccaggccgt ctggggcgga 300  
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 acacgtacga caccgaccgc gacgggctgt tgggttggga ggagctgcgc aacgccacct 480  
 atggccacta cgcgcccggt gaagaatttc atgacgtgga ggatgcagag acctacaaa 540  
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accacctgct	gcacgaragc	gacacggaca	aggaygggcg	gctgagcaaa	gcgsaaatcc	960
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agaaccgccc	caaccctccc	agctccaaat	ctgagcctcc	accacataga	ctgaaactcc	1380
cctggcccca	gccctctccc	gcctggcctg	gcctgggaca	cctcctctct	gccaggaggc	1440
aataaaagcc	agcgccggga	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1500
aaaaaa						1507

<210> 57  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 57						
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gttcaatcat	tctcaaagag	gctgtaagga	tgattaaaa	cctgaaggaa	gccattgaag	120
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cttggtttct	gattgttctt	ggggctgtgg	ataaaaccat	tctctgagaa	gctgataaagc	300
aattggatga	gaaagargga	gargaaaact	ggcaggarga	tctggsccca	tgcccgagc	360
cagcacatct	ctcttcagac	ctggtgacct	cagccactgg	gaacctggca	ggcaccagct	420
acagtgttgg	acactgctcg	tgccgaattc				450

<210> 58  
 <211> 1147  
 <212> DNA  
 <213> Homo sapiens

<400> 58						
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gtgctggaca	cggcttctgc	catctgcaac	tacaatgccc	actacaagaa	tcaccccaaa	300
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aacaaagaag	acacgggctg	gtactggtgt	ggcatccagc	gggactttgc	cagggatgac	480
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gatagaccac	acccaagcaa	ggctgccctc	aaataacatc	tcaagatctt	agttcttatg	1020
cattccatca	gtcagaagtg	aagaagaggt	ggagaatctg	gattggggac	caggaaatca	1080
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aaaaaa						1147

<210> 59  
 <211> 777

<212> DNA  
<213> Homo sapiens

<400> 59  
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tywcatttcc tccttggttg actgcagtc gtcctcact gccccatct cctggaagag 180  
gagcataagc tttgcaaggc cagccacttc tctggggtca cactagttac atcaagacag 240  
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gacctggytc cttgcacagc agargacccg gaggtctgaga ggagcttgcg gttgtgtcat 360  
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ggctgtcagc accgaggtag cagagaatta acattcttgt cagcagagaa tgaagcagga 480  
atataattaa aactttgccc ttggaatagc tgattcattt gaattttatt ccacacgttt 540  
gaaagaggaa agaaaatgtg aagacttgca gcctgggtct cgctggcct gggctggccc 600  
agctgtcagg cccggttccct ttctgagcat tcagtcact gatgttgact gagggccagg 660  
agagaccctc accgaggtat taccatatca gcctcctatc gctgctggga gaaattacca 720  
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<210> 60  
<211> 1191  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (5)  
<223> n equals a,t,g, or c

<400> 60  
aagantgatt ttccttactc tccaaagcgt cagcattttg aagtttcttt tatgaaagtg 60  
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tggaggtggc cagcagagtg gcctcagatg ttcttgccc tggcccagga gcccaggaca 180  
gaggtcaaat ctaggccctt tgggtctggc ggattcatca ggcaagattc gaaaacaaga 240  
aaacctctag aacaagaaac aatcatgtct gcagcagata cggcactgtg gccctatggc 300  
catggcaatc gtgagcacca agagaatgag ttacagaaat atctccaata caaagacatg 360  
catctcctgg acagtggaca gtcgctggga cacacacaca cacttcaagg ctacacaac 420  
ctaacagcct taaatatctg aagaaacaga atcacgacat taagtcagca gagggagagg 480  
taggctgaag cagcaggagg ccaattttat atcccacaga tttttttaaa aatgactccc 540  
cagcaagggg tggggagaaa gccactgatt taggagagtt cttggctcag ccaaccactg 600  
cgggttatcta cacgttttac aaaggcacrg aagtagagag gggctgcact cacgaccctc 660  
cccaggccc gcacagccag acacggtggg ttcttctctt ttcccttctg gccttggtgg 720  
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caaagccctt cccaggccct gcaggaagag agggagggtg aggagaggca gggagggcag 1140  
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<210> 61  
<211> 1580  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1567)  
<223> n equals a,t,g, or c

<220>  
<221> misc\_feature

&lt;222&gt; (1575)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 61

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ttgccatctg ccccaacaac catgaggtgc atatctatga aaagagcggg gccaaatgga 240
ccaaggtgca cgagctcaag gagcacaacg ggcaggtgac aggcacgcac tgggcccccg 300
agagtaaccg tattgtgacc tgcggcacag accgcaacgc ctacgtgtgg acgctgaagg 360
gccgcacatg gaagcccacg ctggtcatcc tgcggatcaa ccgggctgcc cgctgctgct 420
gctggggccc caacgagaa aagtttgcct tgggcagcgg ctctcgtgtg atctccatct 480
gttatttcga gcaggagaat gactggtggg tttgcaagca catcaagaag cccatccgct 540
ccaccgtcct cagcctggac tggcacccca acaatgtgct gctggctgcc ggctcctgtg 600
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gctgggtaca tggcgtctgt ttctcagcca gcgggagccg cgtggcctgg gtaagccacg 780
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aactagnccg acgcntgggt

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&lt;210&gt; 62

&lt;211&gt; 1117

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

```

ggcacgaggc gcgatgcagc acaggctaga ggctgcgcaa sgcgggggcc cgcccctggg 60
accctccggg ccgggcgggt tggccccctt ggcgccgggc gtcggggcgg taaaaggccg 120
gcagaaggga ggcacttgag aaatgtcttt cctccaggac ccaagtctct tcaccatggg 180
gatgtgggtc attggtgcag gagccctggg ggctgctgcc ttggcattgc tgcttgccaa 240
cacagacgtg tttctgtcca agccccagaa agcggccctg gactacctgg aggatataga 300
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tggagctgtg attatggccg tgcggaggcc aggctgtttc ctctgtcgag aggaagctgc 420
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tatccgtctg ggagtgtggt acaacttctt ccgagcctgg aacggaggct tctctggaaa 660
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cattcttctt gagcaccgag aaaaagaatt tggagacaaa gtaaacctac tttctgttct 780
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cactcgtgtc cctaaggagt gagaaaccca tttatactgt actctcagta tggattatta 960
atgtatttta atattctgtt taggccact aaggcaaaa agccccaaaa caagactgac 1020
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&lt;210&gt; 63

&lt;211&gt; 361

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



```

<400> 63
cccacgcgtg ckggcgccctg gcagccaccg cctgggaggt tactgtaagg cccgcagctc      60
ccgccagctc ccggcgacts ctggccgctc cttaccatga agccagtaag tcgtcgcacg      120
ctggactgga ttatttcagt gttgctgctt gccatcgctt taatctcctg gggctgcacg      180
atctatgctt cgatgggtgtc tgcaagacga cagctaagga agaaataccc agacaaaatc      240
tttgggacga atgaaaattt gtaactcttc tggatttaat tatctgaaaa tacagttctt      300
tcctcatgc ttatgtagat ataaaaataa aattcataat gcaaaaaaaaa aaaaaaaaaa      360
g

```

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<210> 64
<211> 1668
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1664)
<223> n equals a,t,g, or c

```

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<400> 64
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actcatacac gtgcgagtgct ttggagggat tccggctcgc tgaggatggg aaacgctgcc      120
gaagaaggat gtctgcaaact caacccacca tggctgcgaa cacatttgtg ttaataatgg      180
gaattcctac atctgcaaact gctcakaggg atttgttcta gctgaggacg gaagacggtg      240
caagaaatgc actgaaggcc caattgacct ggtctttgtg atcgatggat ccaagagtct      300
tggagaagag aattttgagg tcgtgaagca gtttgtcact ggaattatag attccttgac      360
aatttcccc aaagccgctc gagtggggct gctccagtat tccacacagg tccacacaga      420
gttcactctg agaaacttca actcagccaa agacatgaaa aaagccgtgg cccacatgaa      480
atacatggga aagggtctta tgactgggct ggccctgaaa cacatgtttg agagaagttt      540
tacccaagga gaaggggcca ggccctttcc acaagggtgc ccagagcagc cattgtgttc      600
accgacggac gggctcagga tgacgtctcc gagtgggcca gtaaaagccaa ggccaatggt      660
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tctgagccca caaacaagca tctcttctat gccgaagact tcagcacaat ggatgagata      780
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aaccttgcaa acgaagaagt aagaaaatta acacagcgct tagaagaaat gacacagaga      1080
atggaagccc tggaaaatcg cctgagatac agatgaagat tagaaaatcg gacacatttg      1140
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ttaaatcaat aatgtttgtg agtaaaacaa tcagtactga gaaacctggt ttgccacaga      1260
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ctgtggacac aacttgcttc tgccctcatc tgcccttagt tgcaatctca tttgactata      1440
cgataaagtt tgcacagtct tacttctgta gaacactggc cataggaaat gctgtttttt      1500
tgtaytgac tttaccttga tatatgtata tggatgtatg cataaaatca taggacatat      1560
gtacttgtgg aacaagttgg attttttata caatattaaa attcaccact tcagagraaa      1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaa      1668

```

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<210> 65
<211> 1353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1322)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (1341)

<223> n equals a,t,g, or c

<400> 65

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gtcctctgtc	tccccacatt	actatctaca	gttggctctc	tcccatggcg	atgtccatct	240
gccaccgtgg	cactgggtatt	gctttgagtg	caggggtctc	tctttttggc	atgtcggccc	300
tgttactccc	tgggaacttt	gagtcttatt	tggaaactgt	gaagtcctcg	tgtctggggc	360
cagcactgat	ccacacagct	aagtttgcac	ttgtcttccc	tctcatgtat	catacctgga	420
atgggatccg	acacttgatg	tgggacctag	gaaaaggcct	gaagattccc	cagctatacc	480
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tttttcttgg	atttccagaa	aagcctctta	attttatgct	ttctcatoga	agtaatgtac	1260
cctttttttc	tgaactgaa	ttaaatactc	attttatctt	tgaaaaaaaaa	aaaaaaaaacc	1320
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<210> 66

<211> 1011

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (952)

<223> n equals a,t,g, or c

<400> 66

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aatgacacaa	gtgatcagat	tatttctggg	ggaatagaca	atgatatcaa	ggtctgggac	120
tgcgccagaa	caagctaacc	tacaccatga	gaggccatgc	agattcagtg	actggcctga	180
gtttaagttc	tgaaggctct	tatcttttgt	ccaatgcaat	ggacaataca	gttcgtgtct	240
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acaactttga	aaagaacctt	ctgagatggt	cttggtcacc	tgatggaagc	aaaatagcag	360
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aaagccaaat	agatgccttt	ttacaagarm	aaaaaaaaaa	aaaaaaaaaa	nnaaaaaaaa	960
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<210> 67  
 <211> 1193  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (512)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1167)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1169)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1171)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1185)  
 <223> n equals a,t,g, or c

<400> 67  
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 tgtccccaga ggagcagagg gtccctggaaa ggaagctgaa aaagggaacgg aagaaagagg 180  
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 tcccttgacc ccacacagcg tcattgcggg tcatggggag cccctgggtg gagcttgtgg 1080  
 agtcggatca cgtacctgtg cagaaaccgc ctctgtggct gcatttgaaa taaaaccgca 1140  
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<210> 68  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gaattcggca cgagttggca catgatgcaa aatgcatttc tcagagtaga ttgcagtcaa 60  
 aaatgttggg aactactaag catgtgcara tagcatgcat gctgctgctg acctgccaga 120  
 tatttctccc ttccctccctt tctccctcat ttattcattc attaaactgat tcatcctacc 180  
 cattaataaaa attatatgta tgttttgtgc aaagcacctt actcaaggct gcgggggtaca 240  
 aaagtatatc agaagccttg ggctttgacm wacttctctg tagtagtgct agatttgtgt 300

```

ggatctgccac cacttactcc aggcctcttg tgacctgtgc tttgcattaa tctcttaggc 360
taagccacat accctttcat tatacaatct ttgctgatgc taaggacaga ttccaaagtg 420
ccctccttat aatttttgta tttaatgcaa agtgtaatca agaataggcc attgttaggt 480
caattgcttt tctgtattta tcttttcaaa caataaataa tcagtgggat gaaaaagggc 540
cggaaaaaaa aaaaaaaaaa

```

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<210> 69
<211> 1657
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (6)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (343)
<223> n equals a,t,g, or c

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<400> 69
cggacngagc cgccgccggg cacttcctgt ggaggccgca gggggtgdcg gcgcccagcg 60
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gaacgacctg atgggcacgg ccgaggactt cgccgaccag ttcttcctgt tcacaaagca 180
gtacctgcc cactgtggcg gcctctgtct gatcagcacc ttcttgaggg acggcatccg 240
tatgtggttc cagtggagcg agcagcgcg ctacatcgac accacctgga actgcccgtc 300
cctgctggcc tcgtccttcg tcttctcaa cttgctggga cantgactgg ctgctcctg 360
gtgttgagca ggaacttcgt gcagtacgcc tgcttcgggc tctttggaat catagctctg 420
cagacgattg cctacagcat tttatgggac ttgaagtctt tgatgaggaa cctggccctg 480
ggaggaggcc tgttctgtc cctagcagaa tcccgttctg aagggaagag catgtttgcg 540
ggcgtcccca ccatgcgtga gagctcccc aaacagtaca tgcagctcgg aggcagggtc 600
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cagaacatcg tggggcacag ctctgatgat tttagtggc attggtttta aaaccaagct 720
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gtgggaaaca gatctaaatc tcattttatg ctgtatttta tatcttagtt gtgtttgaaa 1560
acgttttgat ttttggaac acatcaaat aaataatggc gtttggtgta aaaaaaaaaa 1620
aaaaaaaaactc grgggggggc ccggtaccca aatcgcc
1657

```

```

<210> 70
<211> 711
<212> DNA
<213> Homo sapiens

```

```

<400> 70
ggcacgagcg aagaccctgt tcggaccctg ccccgattcc agactcaggt agatcgtcgg 60
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cccaggaggt aggggtacc ttgaggggat gatagacctc cccactccc agtgkkaactc 180
tggaaatgat aaggaaactg ggagtggaa agatttcaga gctggggaga ggagttcttc 240
ccttcaaagc cagcaactgc ctttggggaa tgtcgggggg tctctccttt ctctgcttg 300

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tgtkargtgg	tacacagtc	cccccttcacc	tggcgggaag	ctgtcccga	cagactcatc	360
tcagctttcc	cttggggcag	gatcgggggc	agcagctcca	gcagaaacag	caggatctgg	420
agcaggaagg	cctcgaggcc	acacaggggc	tgctggccgg	cgagtgggccc	ccaccctct	480
ggragctggg	cagcctcttc	caggccttcg	tgaagaggga	gagccaggct	tatgcgtaag	540
cttcatagct	tctgctggcc	tgggggtggac	ccaggacccc	tggggcctgg	gtgccctgag	600
tgggtggtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgagc	ggccagcttg	660
gcctttgcct	taataaatgt	gctttatattt	caaaaaaaaa	aaaaaaaaaac	t	711

<210> 71  
 <211> 935  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (510)  
 <223> n equals a,t,g, or c

<400> 71	ggcacagggt	gaaagccagc	taaaccccaa	gtggagaagt	gaaagacatg	gttgttccca	60
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	gataaggaaa	ccaacacgga	agatctcttt	ctggaagaag	cagccagcct	cgtgaaggag	180
	cggcccagcc	gccgggccc	agggtcgcc	tttgttcgga	gtggcacgat	tgtccgttcc	240
	cagacattct	cgcctggagc	acgaagccag	tatgtttgca	gactttatcg	tagtgacagc	300
	gacagttcaa	cgctgcccc	gaagtccccc	tttgtccgaa	atactttgga	aagacgaacc	360
	cttcgctata	agcagtcatg	caggctcttc	ctggctgagc	tcatggccc	cacctccctg	420
	gacttggagc	tggatctcca	ggcgtcgaga	acacggcaga	ggcagctgaa	tgaggagctc	480
	tgcgcccctc	gtgagctgcg	gcagcgggtt	ggaggacgcc	cagctccgtg	gccagactga	540
	cctcccaccc	tgggtgcttc	gggacgagcg	gctccgtggc	ctgctgccc	agccgagcgg	600
	cagacaagac	agaccaaact	tgactaccgt	catgagcagg	cggctgagaa	gatgctgaag	660
	aaggccctca	aggagatcta	ccagctgcgt	ggcagagcca	caaagagccc	atcccaagtgc	720
	agacctttag	ggagaagata	gcattcttca	caaggccaag	gatcaacata	cctcctctcc	780
	cagccgacga	cgtctgatgg	agtgcattgt	gcacatgaag	tatttatcca	cctgttttat	840
	tttcatgaag	ttcttagact	agctgaattt	gtctttaaaa	tattttgtgca	aagctattaa	900
	tatacacatt	ttgtaaaaaa	aaaaaaaaaa	aaact			935

<210> 72  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (504)  
 <223> n equals a,t,g, or c

<400> 72	gcaggggcga	ggggytgggg	accgcggggc	ggacgggagc	gagtatgtcc	gctctgactc	60
	ggctggcgct	tttcgctcgc	gttggaggcc	gccttttcag	aagcggctgc	gcacggactg	120
	ctggagatgg	tggagtcctg	catgccggtg	gtgggtgtgca	cattgagccc	cggatatagac	180
	agttccccca	gctgaccaga	tcccaggtgt	tccagagcga	gttcttcagc	ggactcatgt	240
	ggttctggat	tctctggcgc	ttttggcatg	actcagaaga	ggtgctgggt	cactttccgt	300
	atcctgatcc	ttcccagtgg	acagatgaag	aattaggtat	ccctcctgat	gatgaagact	360
	gaaggtgtag	actcagcctc	actctgtaca	agagccaggt	gagaatttca	aggattatcg	420
	acttcatatt	gcacattaaa	gttacaatt	aaagtggcct	ggtcaagaat	garaaaaaaa	480
	aaaaaaaaatt	gggggggggc	cccn				504

<210> 73  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

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<400> 73
gaattcggca cgaggaggag gggaggcggg gtaagtttgg tgggaaactc tgtaatttcc      60
wtttttactt tcacagcaat agtgcagaat ccagaatgga tgtcctcttt gtagccatct      120
ttgctgtgcc acttatcctg ggacaagaat atgaggatga agaaagactg ggagaggatg      180
aatattatca ggtggtctat tattatacag tcacccccag ttatgatgac tttagtgcag      240
atttcaccat tgattactcc atattttgagt cagaggacag gctgaacagg ttggataagg      300
acataacaga agcaatagag actaccatta gtcttgaac agcacgtgca gaccatccga      360
agcctgtaac tgtgaaacca gtaacaacgg aacctcagag tccagatctg aacgatgccg      420
tgtccagttt gcgaagtcct attcccctcc tcctgtcgtg tgcctttggt cagggtgggga      480
tgtatttcat gtagaagggt gaagaaggct gctatgactc tttggatggg agtctggcaa      540
gaggaaattg gaagataaaa taaataataa gtgaaataaa aaaaaaaaaa aaaaactcga      600
ggggggggccc ggtacccaat

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```

<210> 74
<211> 581
<212> DNA
<213> Homo sapiens

```

```

<400> 74
acaaggtgtg tgtaaagttt atgtttgtaa actgaattct atcttaaadc caaaaagaac      60
tcgggagtaa ttcatttttg tagcataaag atccctaagt tttattttga aatatctgat      120
ttttacacgt taaaaaataa cagggcatcg agaggattcc taggtgacat ccagactcct      180
ttagctttgt gtgtgtggca cgggttagtc tgcttctctc tcctttcttg cactgcttca      240
cacagccatg ccctgccagc cggggcaggt gccttcctgt caatgtacat ttgggcttct      300
gctcatgctg ccctccctcc cctccctcgc ctcccaaccc cgccctcttt gttcctccat      360
ggagtacttc catgggtgtg cctccccccag ccaagccata atagggtggt tccccctcgc      420
ttctgtagcc cttgcagaca tcctctgttt acagtagggt ttgacttact tccccctcgc      480
ccgstaaagc cataaactcc ttaaggacag gtagcattct tagtatcttc gttcttctca      540
atgaccagta gaccattaaa catgtagcaa acaaatgtga a

```

```

<210> 75
<211> 1843
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (10)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (24)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (91)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (213)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (1633)
<223> n equals a,t,g, or c

```

&lt;400&gt; 75

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aaacccaacn ccctccggtc ccnnaaagaa agcccagccc aaatcccaag ccggcagtgga 60
gcccgcgaac aagggccctca agacgcccag ncgaacaagc agcccccagg agggcccgcga 120
agagaactcc ctggcgggccc aagcgggcag cttctgtgcg gcagaactca gccaccgaga 180
gcgcagacag catcgagatt tatgtcccgg agncccagac caggctctga gaccatgcag 240
gaggaaagaa acgatttttaa atcattaaaa acacaaaaaac taagtgcgaa cggaacagag 300
ttttctcaac ctttgctatg gttattctgt ctagagaccc tgagccaact ttcaaattga 360
cgcatacaag ggctcacaat ttggcttttt tgggtccctc ccagcttttag gttatgaaga 420
ttttactcac aaaaaaaatc aacaaaaatc acgaaactag aaaacttttt ttttcctctt 480
gctggccgtg gtggactaga tagatggacg tgggcaactc ccggcccagc ctccatactg 540
cggctcttttt actcgttcta tctgatgaga actcacacta gcttgtttac aagatgacga 600
cagtccaagg gcagccttgg gcacctgcca tgtccctect ttccccagct atccccgctc 660
tgaccttgat ttccattctt atgtttttct cttttccctt cagagctcac acagtggcca 720
ccattgtggc aagcggtctt ctgggtctca gccctctctg cgggtgaggg cccagaggac 780
agagagatgg acatgcgtcc cctccctccc ccgcgcaagt gctcacacac aacctcacgc 840
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gtgtcaggca ggactcactc accgctgagc agatgagaga agtttttagtc ttggcgggtg 960
gaaatgagac gaagccacag ttatcacact ccagactcct gcccttttat tttctccagc 1020
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cagccgcgccc tgtgtccggt gcccgagggg cgggcggcgg tgtctgtatg tatgtgtaca 1140
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gtggcgcttg ctngcagggg accccccccc cgtccccagg tgaaccaagg gtctgctccg 1680
gggcccattt ccagcttggc cgccgtctgt gaccttgggc aagtcacttg acctctgtgt 1740
gcctcaactt cctcctctgt aaaaacggga cagtcctctg ccctccctac ctcacaggca 1800
tggtgtgaga ataaatgagg taacgtgtaa aaaaaaaaaa aat 1843

```

&lt;210&gt; 76

&lt;211&gt; 1441

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1056)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1081)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1109)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1328)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1362)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (1419)  
 <223> n equals a,t,g, or c

<400> 76

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acacgccttc	atgaaggcg	ttttcacctt	cgtcacaggc	accggcatgg	cctttggctt	180
gcagatgttc	attcagagga	agtttccata	ccctttgcag	tggagcctcc	tagtggccgt	240
ggttgcaggc	tctgtggtca	gctacggggt	gacgagagt	gagtcggaga	aatgcaacaa	300
cctctggctc	ttcctggaga	ccgggagct	ccccaaagac	aggagcacag	atcagagaag	360
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ttcatgcccc	ctgacccag	gccgacctc	cccacaccct	agggtacccc	agtcgtatcc	480
tctgtccgca	tgkttggtca	ggcctgacaa	acacctgcag	atggctgctg	ccccaacctg	540
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ggtattggga	tgcatgttct	gactgcccag	cagagagggt	gtgtctgggg	gccaccacct	660
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gacaggtcac	atgaaacctt	tattacccta	cagttgatat	atgaggatca	catgcaagtt	900
acatactgag	gatgtacagg	gaagttccca	gcgtggaacc	ccagaattag	acgttcgcat	960
cagccccgta	ggccacgtgg	acaccaccac	agcctctctg	tatgggggtc	tgcctctgta	1020
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tctgagtggg	caagcctaca	cacagccccg	agccccaaga	ggaggaaagag	gtggagacca	1260
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ttgaaaagaaa	gttattgagt	actaatggc	ctcagagtna	caggaagctc	aagttaaagt	1440
g						1441

<210> 77  
 <211> 910  
 <212> DNA  
 <213> Homo sapiens

<400> 77

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atcggggccc	tgggaagcgc	ctgtctatcc	cgggggcagg	acctgagcgc	ccctgacctt	180
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ctgaagtggg	gtgcttgggt	cgctgtctac	tgtctcttca	tcagctttgc	caactctcgg	360
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gaatgaggcc	gtctcgggtc	cccagctggg	atagagggaa	cctggccctt	tcctagggaa	720
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catgtttcta	ggggatttca	tttgctttct	cgttgaaacc	tgttggtta	aaagtttttc	840
actctgaaaa	aaaaaaaaaa	aaaaaaaaaa	tygrgggggg	gcccgggaacc	caattcscgg	900
gatagttagt						910

<210> 78  
 <211> 2776  
 <212> DNA  
 <213> Homo sapiens

<400> 78

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tgggtgcgct	gggggcgcg	gggtctgggg	gcccggggcg	ggcggggcga	ggagagcccc	300
gccacctctc	tgccctcgcat	gaagaagcgg	gacttcagct	tggagcagct	gcgccagtac	360
gacggctccc	gcaacccgcy	catectgctc	gcggtcaatg	ggaaagtctt	cgacgtgacc	420
aaaggcagca	agttctacgg	cccggcggtt	ccatattgaa	tatttgctgg	tagggatgcc	480
tccagaggac	tggccacatt	ttgcctagat	aaagatgcac	ttagagatga	atatgatgat	540
ctctcagatt	tgaatgcagt	acaaatggag	agtgttcgag	aatgggaaat	gcagttttaa	600
gaaaaatattg	attatgtagg	cagactccta	aaaccaggag	aagaaccatc	agaatataca	660
gatgaagaag	ataccaagga	tcacaataaa	caggattgaa	ctttgtaaac	aaccaaagtc	720
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taatgtctag	tggggcttca	tcacctgaa	aagaaggaga	cagggatttt	tttaaagagc	960
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<210> 79  
 <211> 1487  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (78)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (948)  
 <223> n equals a,t,g, or c

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<210> 80  
 <211> 1563  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (14)  
 <223> n equals a,t,g, or c

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ctttgcagct	cttgtgatct	tctcggacag	ttcaacctgc	ttcagctgga	tcttgattgc	240
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<210> 81  
 <211> 1020  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (20)  
 <223> n equals a,t,g, or c

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 aaccgccagc tcctggacaa gtacgcggcc tgcggcagcc cggaggaggt gctgcaggcg 480  
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<210> 82  
 <211> 770  
 <212> DNA  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (757)  
 <223> n equals a,t,g, or c

<400> 82  
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 ttgattagtt tgtcctttgg aggagcaatc ggactgatgt ttttrtgct tggatgtgcc 180  
 cttccaatat acaacaaata ctggcccctc tttgttctat tttttacat cttttcacct 240  
 attccatact gcatagcaag aagattagtg gatgatacag atgctatgag taacgcttgt 300  
 aaggaaacttg ccattctttc tacaacgggc attgtcgtgt cagcttttgg actccctatt 360  
 gtatttgcca gagcacatct gattgagtgg ggagcttgtg cacttgttct cacaggaaac 420  
 acagtcatct ttgcaactat actaggcttt ttcttgggtc ttggaagcaa tgacgacttc 480  
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 tgttggccat tcacgcacac aggagatggg gcagttaatg ctgaatggta tagcaagcct 600  
 cttgggggta ttttaggtgc tcccttctca cttttattgt aagcatacta ttttcacaga 660  
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<210> 83  
 <211> 481  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (322)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (379)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (390)

<223> n equals a,t,g, or c

<400> 83

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ccgtnattac	aattccacnt	gggcccgtccn	tttttacaaa	cgttccggtg	aactgggaaa	420
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c						481

<210> 84

<211> 644

<212> DNA

<213> Homo sapiens

<400> 84

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gcagcaactt	tatcttttgc	cactagaggg	agatctgtgg	ttgctttctc	ctttggagaa	420
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ctttagtgtt	attaaatatt	ttcattttatt	agtcaaaggt	aagttaatta	agcttgttta	540
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taagtgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa		644

<210> 85

<211> 1351

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1305)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature  
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<210> 86  
 <211> 2527  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
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<210> 87
<211> 2566
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)
<223> n equals a,t,g, or c
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<210> 88  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 88						
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gtcatgargc	tcaataaaaa	cttcaaggaa	acctcccatg	gcatgggttg	gcgcagtgc	480
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<210> 89  
 <211> 1863  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1836)  
 <223> n equals a,t,g, or c

<400> 89						
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caaggaccca	gatgatgtgg	taccagttgg	ccaaagaaga	gcctgggtgt	ggtgcatgtg	360
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ttttgcactt	caaccagatg	acgtgtacta	ctgtggaata	aagtacatca	aagatgatgt	480
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aaa						1863

<210> 90  
 <211> 2478  
 <212> DNA  
 <213> Homo sapiens

<400> 90						
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caaggaagag	accaaagact	ggatccttcc	ctcagactat	gatcatgcag	aggcagaagc	900
caggcacctg	gtctatgaat	cagacaaaaa	caaggatggc	aagcttacca	aggaggagat	960
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aaaccactta	ctaccaggcc	tttttcttgt	tccactggag	agcttgagct	cacactcaaa	2340
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ccgggggaac	cactagtt					2478

<210> 91  
 <211> 2058  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (69)  
 <223> n equals a,t,g, or c



<220>  
 <221> misc\_feature  
 <222> (161)  
 <223> n equals a,t,g, or c

<400> 91  
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 atggcagtn cttcaccgat atgttcaaga tactgacgta ttctgtctgt tcccagaagc 120  
 gaagtggaga ggcgccagagt aatgggtgaag gcattggagt ntttcagcaa tcttctaacc 180  
 aaagtctgtt tgattcatgt aagatgtctc atgggtgggc atttacagaa gagaaagtgg 240  
 aagatgtgaa agctctggtc aagattgtcc ctgttttctt ggctttgata cttactgga 300  
 cagtgtattt ccaaatgcag acaacatatg ttttacagag tcttcatttg aggattccag 360  
 aaatttcaaa tattacaacc actcctcaca cgctccctgc agcctggctg accatgtttg 420  
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 ggcaggtgcc gcagtacttg ctgattggga tcagcgagat ctttgcaagt atcgcaggcc 720  
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 ttttgtattg ttactgtacg tgtatctggg gcttctccgt ttgttaatac ttttctgtga 1980  
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 aaaaaaaaaa aaaaaaac 2058

<210> 92  
 <211> 1411  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1391)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1403)  
 <223> n equals a,t,g, or c

<400> 92  
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 caagacatcc ccgtagaagg agaaatcacc attcctatga gatctcgcat ccgggagttt 180  
 gacagctcca cattaaatga atctgttcgc aataccatca tgcgtgatct aaaagctgtt 240

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&lt;210&gt; 93

&lt;211&gt; 2187

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 93

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caatgacaaa	aaaaaaaaaa	aaaaaaa				2187

<210> 94  
 <211> 757  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (756)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (757)  
 <223> n equals a,t,g, or c

<400> 94							
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tatcctagga	ccccagaaga	acgggcccgc	gccgccaaga	agtataatat	gcgtgtggaa		240
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atattcatgt	gctgggtggg	ggacgtgtac	cctgtctacc	agcctgtggg	accaaagcag		540
tatccttaca	ataatctgta	cctggaacga	ggcgggtgat	cctccaaaga	accagagcgg		600
gtggttcact	atgagatctg	aggaggcttc	gtgggccttt	gggtcctcta	actaggactc		660
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aaaaaaaaaa	aaaaaaaaaa	aaaaaggggg	gccccnn				757

<210> 95  
 <211> 2394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1783)  
 <223> n equals a,t,g, or c

<400> 95							
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<210> 96
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<212> DNA
<213> Homo sapiens

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<210> 97
<211> 1419
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (676)

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<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (912)

<223> n equals a,t,g, or c

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<210> 98

<211> 1830

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (97)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (211)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1813)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (1830)

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&lt;210&gt; 99

&lt;211&gt; 1145

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 734

&lt;212&gt; DNA

<213> Homo sapiens

<400> 100

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<210> 101

<211> 713

<212> DNA

<213> Homo sapiens

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<221> misc\_feature

<222> (27)

<223> n equals a,t,g, or c

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<210> 102

<211> 1080

<212> DNA

<213> Homo sapiens

<220>

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<222> (514)

<223> n equals a,t,g, or c

<220>

<221> misc\_feature

<222> (721)

<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens
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<213> Homo sapiens
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaan			2435

<210> 106  
 <211> 805  
 <212> DNA  
 <213> Homo sapiens

<400> 106						
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tattgatttt	taagaaagta	atttaatttg	taaaacttct	gctcgtttac	actgcacatt	120
gaatacaggt	aactaattgg	aaggagaggg	gaggtcactc	ttttgatggg	ggccctgaac	180
ctcattctgg	ttccctgctg	cgctgcttgg	tgtgaccac	ggaggatcca	ctcccaggat	240
gacgtgctcc	gtagctctgc	tgctgatact	gggtctgcga	tgacgcggcg	tgaggcctgg	300
gctgggttga	gaaggtcaca	acccttctct	gttgggtctg	cttctgctga	aagactcgag	360
aaccaaccag	ggaagctgtc	ctggaggtcc	ctggctcggag	agggacatag	aatctgtgac	420
ctctgacaac	tgtgaagcca	ccctgggcta	cagaaaccac	agtcttccca	gcaattatta	480
caattcttga	attccttggg	gattttttac	tgccctttca	aagcacttaa	gtgttagatc	540
taacgtgttc	cagtgtctgt	ctgaggtgac	ttaaaaaatc	agaacaaaac	ttctattatc	600
cagagtcacg	ggagagtaca	ccctttccag	gaataatgtt	ttgggaaaca	ctgaaatgaa	660
atcttccag	tattataaat	tgtgtattta	aaaaaaagaa	acttttctga	atgcctactg	720
gcggtgtata	ccaggcagtg	tgccagttta	aaaagatgaa	aaagaataaa	aactttttag	780
gaacaaaaaa	aaaaaaaaaa	aaatt				805

<210> 107  
 <211> 1166  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1039)  
 <223> n equals a,t,g, or c

<400> 107						
ggcacgagag	gcgccagtcg	caggtgtgct	gctgagggcg	gagaatggcg	tccccggggc	60
ggcgtccgga	gcatggcgga	ccccagagc	tgttttatga	cgagacagaa	gcccggaaat	120
acgttcgcaa	ctcacggatg	attgatatcc	agaccaggat	ggctgggcca	gcattggagc	180
ttctttatct	gccagagaat	aagccctgtt	acctgctgga	tattggctgt	ggcactgggc	240
tgagtggaa	ttatctgtca	gatgaagggc	actattgggt	gggcctggat	atcagccctg	300
ccatgctgga	tgaggctgtg	gaccgagaga	tagagggaga	cctgctgctg	ggggatatgg	360
gccagggcat	ccatttcaag	ccaggcacat	ttgatgggtg	catcagcatt	tctgctgtgc	420
agtggctctg	taatgctaac	aagaagtctg	aaaaccctgc	caagcgcttg	tactgctttt	480
ttgcttctct	tttttctgtt	ctcgtccggg	gatcccagac	tgctcctgcg	ctgtaccctg	540
agaactcaga	gcagttggag	ctgatcacia	cccaggccac	aaaggcaggc	ttctccggtg	600
gcatggtggt	agactaccct	aacagtgcc	aagcaaagaa	attctacctc	tgcttgtttt	660
ctgggccttc	gacctttata	ccagaggggc	tgagtgaata	tcaggatgaa	gttgaaccca	720
gggagtctgt	gttcaccaat	gagaggttcc	cattaaggat	gtcagggcgg	ggaatggtga	780
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ggttctggaa	aggcacttgc	ctctgcactt	ttctatatgt	ttcagctgac	aaagtgtat	960
tttagaaaag	ttctaaggtt	ataaaaatgt	tttctgcagt	aaaaaaaaag	ttctctgggc	1020
cgggcgtggt	ggctcacanc	tgtaatccca	gcacctgggg	aggctgaggt	gggaggatca	1080
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aaaaaaaaaa	aaaaaaaaaa	actcga				1166

<210> 108  
 <211> 586

<212> DNA  
<213> Homo sapiens

<400> 108  
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 tctgttgcta ctgaggcacg gggcccaggg gaagccatcc ccagacgcag gccctcatgg 120  
 ccaggggagg gtgcaccagg cggccccctt gagcgacgct ccccatgatg acgcccacgg 180  
 gaactttccag tacgaccatg aggccttctt gggacgggaa gtggccaagg aattcgacca 240  
 actcacccca gaggaagcc agggccgtct ggggcggtac gtggaccgca tggaccgcgc 300  
 gggggacggc gacggctggg tgctcgtggc cgagcttcgc gcgtggatcg cgcacacgca 360  
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 cgggcgtgtg gggtggagg agctgcgcaa cgycacctat ggccactasg sgcccgtga 480  
 agaatttcat gacgtggagg atgcagagac ytacaaaaag atgctggytc gggacgagcg 540  
 gcgtttccgg gtggccgacc aggatgggga ctcgatggcc actcga 586

<210> 109  
 <211> 1134  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (418)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (803)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (816)  
 <223> n equals a,t,g, or c

<400> 109  
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 actgggctgc ttgagtcctg agtcacaatt cagaattcct gggctccctg ggtgcattct 120  
 atcattccag ttgaaagttt gcttccttcc agtcagtgtg ctcttcattc tactctcctt 180  
 ggctctcatt tcagatgcca tggatcatgga tgaaaaggtc aagagaagtt tgtgctggac 240  
 acggcttctg ccatctgcaa ctacaatgcc caytacaaga atcaccctaa atactgggac 300  
 cgaggytatt tccgtgayta ctgcaacatc atcgcttctt cccctaacag caccaatcat 360  
 gtggccctga aggacacagg gaaccagctc attgtcacta tgtcctgcct gaacaaanaa 420  
 gacacgggct ggtactgggt tggcatccar cgggactttg cmagggatga catggatttt 480  
 acagagctga ttgtaactga cgacaaagga accctggcca atgacttttg gtctgggaaa 540  
 gacctatcag gcaacaaaac cagaagctgc aaggctccca aagttgtccg caagctgacc 600  
 gctccaggac gtccattctc atcatttgca tactgatcac gggtttggga atcatctctg 660  
 taatcagtca tttgaccaa aggaggagaa gtcaaaggaa tagaagggtg ggcaacactt 720  
 tgaagccctt ctgcggtgtc ctgactccaa aggaaatggc tctactgaa cagatgtgac 780  
 tgaagwtttt ttttaatttag ttncataaag tgatgnctac aacagawtaa tcaccatga 840  
 caactggccc cacacctcag agactgattc tgatctccca ggaattctga aggaccctct 900  
 atccttgaca acaatcattt gcagccaggt agcaacggcr gtatgcagag gagctatgat 960  
 agaccacacc caagcaaggc tgccctcaaa taacatctca agatcttagt tcttatgcat 1020  
 tccatcagtc agaagtgaag aagaggtgga gaatctkgat tggggaccag gaaatcactt 1080  
 gtattttgtt agccaataaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

<210> 110  
 <211> 1333  
 <212> DNA  
 <213> Homo sapiens

```

<400> 110
cacttttaag ctctgctgag ggagttcggg gccaggcgtt tcaggcgacc tctgcccctcc 60
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gggagccatg tgaagagggg cacgcctggg ctgtcccaca gtttagatcc agttggaggt 180
tctccctggc tcctgcaggc ctgcggggat ctctccccac ttcaggcctc cggcagctgc 240
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cccagagtac gtgttttacag gctttccaga tcaccttcc tgggggtgaa cgtaatgagg 360
cggggctggg ccttggaatt tcccctggaa aatggtaaca gactccatcc ttgaccggg 420
gatgagcatg aaggcattgt cccaaaggca gagggccaccg tggtaggaat tccaccaagg 480
ccagaaggga aaaaggaaga acccaccgtg tctggctgtg cgggcccctgg gaggggtcgt 540
gagtgcagcc cctctctact tcygtgcctt tgtaaaacgt gtagataacc gcagtgggtg 600
gctgagccaa gaactctcct aaatcagtgg ctttctcccc accccttgct ggggagtcac 660
tttttaaaaa atctgtggga tataaaattg gcctcctgct gcttcagcct acctctccct 720
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tcaggagttg gagaccaacc ctggcaacat aacaagaccc tgtctctaca aaaaaaaaaa 1320
aaaaaaaaact cga 1333

```

```

<210> 111
<211> 1015
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1014)
<223> n equals a,t,g, or c

```

```

<400> 111
ggcacgagcg gcacgagcgg cacgaggtga cttcaagtgt cggatctttt cagcctacat 60
caaggaggtg gaggaacggc cggcaccac cccgtgggct ccaagatgcc ctttggggaa 120
ctgatgttcg aatccagcag tagctgcggc tgggtacatg gcgtctgttt ctccagccagc 180
gggagccgcg tggcctgggt aagccacgac agcaccgtct gcctggctga tgccgacaag 240
aagatggccg tcgcgactct ggccctctgaa acactaccac tgctggcgct gaccttcac 300
acagacaaca gcctgggtggc agcggggcac gactgcttcc cgggtgctgtt cacctatgac 360
gccgccgcgg ggatgctgag ctteggcggg cggctggacg ttccctaagca gagctcgcag 420
cgtggcctga cggcccgcga gcgcttccag aacctggaca agaaggcgag ctccgagggt 480
ggcacggctg cgggcgcggg cctagactcg ctgcacaaga acagcgtcag ccagatctcg 540
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atgagtatct gggatgtgaa gagcttggag tcagccttga aggacctcaa gatcaaatga 660
cctgtgagga atatgttgcc ttcatcctag ctgctgggga agcgggggaga ggggtcaggg 720
aggctaattg ttgctttgct gaatgtttct ggggtaccaa tacgagttcc cataggggct 780
gctccctcaa aaagggaggg gacagatggg gagcttttct tacctattca aggaatacgt 840
gcctttttct taaatgcttt catttattga aaaaaaaaaa aaatgcccc aaagcactat 900
gctggctcatg aactgcttca aaatgtggag gtaataaaat gcaactgtgt aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacnc 1015

```

```

<210> 112
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (345)
<223> n equals a,t,g, or c

```

```

<400> 112
ggcacgagcg aagaccctgt tcggaccctg ccccgattcc agactcaggt agatcgctcg 60
cataccctct accgtggaca ccaggcagcc ctggggctga tggagagaga tcaggatatcc 120
cccagggagt aggggctacc ttgaggggat gatagacctc cccactccc agtgkkactc 180
tggaatatg aaggaactag ggagtggaa agatttcaga gctggggaga ggagtctctc 240
ccttcaaagc cagcaactgc ctttggggaa tgtcgggggg tctctccttt ctctgcttg 300
tttragggtg tacacagtcc ccccttcamc tggsggggaa ctgtnccgga caractcatc 360
tcagcttttc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatcttg 420
agcaggaagg cctcgaggcc acacaggggc tgctggccgg cgagtgggcc ccacctctc 480
ggragctggg cagcctcttc caggccttcg tgaagaggga gagccaggct tatgcgtaag 540
cttcatagct tctgctggcc tggggtggac ccaggacccc tggggcctgg gtgccctgag 600
tggttggtaaa gtggagcaat cccttcacgc tccttgacca tgttctgagc ggccagcttg 660
gcctttgcct taataaatgt gctttatttt caaaaaaaaa aaaaaaaaaac t 711

```

```

<210> 113
<211> 1076
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1029)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1037)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1040)
<223> n equals a,t,g, or c

```

```

<400> 113
ggcacgaggg gaaagccatg ctcccaggac tccttccttg cagccttaaa tcggtctgta 60
cggaataatt cgcgccttag aaacccacgc ttgggtgtaa cttattattg ttcttcctga 120
cctacttccct gtttatcaact tccgggttca tcattttggc atttcggtga tcgggttgga 180
actattgaag cccgctttca ggttcttttc cccattttcc ctttgaaagg aagacttctg 240
gcttctccta aatctccgtt ctctgggtaa ggggagtcca agcctctgtc atgaggaacg 300
gaaatgcgag ggctcgggt gttactctaa aatccgccct cagcttgac gccggaagct 360
gcgattcctg cagcggaaga ggctgcatc ggcttcgac tcgctatgtc cactaacaat 420
atgtcggacc cacggaggcc gaacaaagt ctgaggtaca agccccgcc gagcgaatgt 480
aaccggcctc tggacgacc gacgccggac tacatgaacc tgctgggcat gatcttcagc 540
atgtcgggcc tcatgcttaa gctgaagtgg tgtgcttggg tcgctgtcta ctgctccttc 600
atcagctttg ccaactctcg gagctcggag gacacgaagc aaatgatgag tagcttcatg 660
ctgtccatct ctgctgtggt gatgtcctat ctgcagaatc ctcagcccat gacgccccca 720
tggtgatacc agcctagaag ggtcacattt tggacctgt ctatccacta ggcctgggct 780
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ccctcctgcc tcccttcccc tgctgtcatg tgggggagat gctgtccatg tttctagggg 960
tattcatttg ctttctcggt gaaacctgtt gttataaag tttttcactc tgaaaaaaa 1020
aaaaaaaaana raaacncgn gggggggccc ggaacccaat tcscggata gtgagt 1076

```

```

<210> 114
<211> 1525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (78)  
 <223> n equals a,t,g, or c

<400> 114  
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 ccgcctggct cctgctgnca cctgcaggct cgtcgcgggt ggagcccacc caagacatca 120  
 gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctgg 180  
 tgggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcacccgg gagaggcgcc 240  
 ggccgcatgc ggagagacca ggcgagcaca cccccctgtt ggccccctgcc acggcccagc 300  
 cctctgtgct ctggaagcac tggctccggg agcsggcttt ctaccagggtg ggcatactgt 360  
 acatgaccac caggctcatc gtgaacctgt cccagacctg catggccatg tacctcacct 420  
 actcgtcca cctgcccagg aagttcatcg cgaccattcc cctggtgatg tacctcagcg 480  
 gcttcttgct ctccttcctc atgaagccca tcaacaagtg cattgggagg aacatgacct 540  
 acttctcagg cctcctgggtg atcctggcct ttgccgctg ggtggcgctg gcgaggggac 600  
 tgggtgtggc cgtgtacgca gcggtgtgct tgctgggtgc tggctgtgcc accatcctcg 660  
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 gtacggctcc atgagcttct tggataaggt ggccaatggg ctggcagtca tggccatcca 780  
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 ggggaaaagc cccactgcc cctcactctt ctctggaccc ccacctcca tcctcaccca 1080  
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 gccaggggcc cctcaggacg gctggagcct ggaggagaca gccacggggt ggtgggctgg 1380  
 gcctggaccc caccgtggtg ggcagcaggg ctgcccggca ggcttgggtg actctgctgg 1440  
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 aaaaaaaaaa aaaccaccg tccgc 1525

<210> 115  
 <211> 1350  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (15)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (1343)  
 <223> n equals a,t,g, or c

<400> 115  
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<210> 116  
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 <212> DNA  
 <213> Homo sapiens

<400> 116						
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aaaaaaa						2527

<210> 117  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (88)  
 <223> n equals a,t,g, or c

<220>  
 <221> misc\_feature  
 <222> (89)  
 <223> n equals a,t,g, or c

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 cttgggtgccc cttcaagacc tattgaagat gaccaagaag tatatgatga tgttgcagag 180  
 caggatgata ttagcagcca cagtcagagt ggaagtggag ggatattccc tccaccacca 240  
 gatgatgaca tttatgatgg gattgaagag gaagatgctg atgatggttt ccttgctcct 300  
 cctaaacaat tggacatggg agatgaagtt tacgatgatg tggatacctc tgatttccct 360  
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<210> 118  
 <211> 1679  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1679)  
 <223> n equals a,t,g, or c

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 cagccgggag cccgcagccc gcgccccgag cccgcgcgcg cccttcgagg gcgccccagg 180  
 ccgcgccatg gtgaagggtga cgttcaactc cgctctggcc cagaaggagg ccaagaagga 240  
 cgagcccaag agcggcgagg aggcgctcat catccccccc gacgcgctcg cgggtggactg 300  
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 ttttgcactt caaccagatg acgtgtacta ctgtggaata aagtacatca aagatgatgt 480  
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 tatgaagtca tagataatag tacatgtcac cttaggtagt aggaagaatt acaatttctt 1260



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<210> 119  
 <211> 1411  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1391)  
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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<210> 120  
 <211> 2223  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (338)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (2209)  
 <223> n equals a,t,g, or c

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 aat 2223

<210> 121  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 121  
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 Arg Arg Leu Trp Trp Met Arg Ala Leu Leu Ile Leu Lys Tyr Ile  
 20 25 30

<210> 122  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

&lt;400&gt; 122

Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu  
 1 5 10 15

His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr  
 20 25 30

Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr  
 35 40 45

Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr  
 50 55 60

Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp  
 65 70 75 80

Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met  
 85 90 95

Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu  
 100 105 110

Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser  
 115 120 125

Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser  
 130 135 140

Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val  
 145 150 155 160

Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr  
 165 170 175

Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr  
 180 185 190

Arg Val Leu Phe Ile Tyr  
 195

&lt;210&gt; 123

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

Met His Asn Gln Arg Gln Val Phe Leu Phe His Leu Phe Ser Asn Tyr  
 1 5 10 15

Leu Leu Ser Ile Asn Ser Val Pro Gly Thr Leu Leu Ala Ala Thr Tyr  
 20 25 30

Cys Leu Asn Met Thr Tyr Gly  
 35

<210>	127
<211>	30
<212>	PRT

<213> Homo sapiens

<400> 127

Met Pro Phe Pro Ile Ser Ile Leu Gln Leu Cys Leu Gln Ile Ser Asn  
1 5 10 15

Leu Ser Phe Cys Leu Gln Lys Ile Tyr Lys Ile Pro Phe Val  
20 25 30

<210> 128

<211> 53

<212> PRT

<213> Homo sapiens

<400> 128

Met Ala Ala Ala Cys Arg Ser Val Lys Gly Leu Val Ala Val Ile Thr  
1 5 10 15

Gly Gly Ala Ser Gly Leu Gly Leu Ala Thr Ala Asp Asp Leu Trp Gly  
20 25 30

Arg Glu Pro Leu Leu Cys Phe Trp Thr Cys Pro Thr Arg Val Gly Arg  
35 40 45

Pro Lys Pro Arg Ser  
50

<210> 129

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (10)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (28)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 129

Met Leu Leu Val Tyr Asp Leu Tyr Leu Xaa Pro Lys Leu Trp Ala Leu  
1 5 10 15

Ala Thr Pro Gln Lys Asn Gly Lys Gly Ala Arg Xaa Gly Asp Gly Thr  
20 25 30

Pro Ala Gln Ala Phe Trp Asp Phe Trp Ser His Leu Ile Ser Ala Asp  
35 40 45

Pro Gln Thr Trp Glu Arg Ala Ala Pro  
50 55

<210> 130

<211> 216

<212> PRT

<213> Homo sapiens

<400> 130

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Met Arg Leu Ser Ala Leu Leu Ala Leu Ala Ser Lys Val Thr Leu Pro
 1           5           10           15

Pro His Tyr Arg Tyr Gly Met Ser Pro Pro Gly Ser Val Ala Asp Lys
          20           25           30

Arg Lys Asn Pro Pro Trp Ile Arg Arg Arg Pro Val Val Val Glu Pro
          35           40           45

Ile Ser Asp Glu Asp Trp Tyr Leu Phe Cys Gly Asp Thr Val Glu Ile
 50           55           60

Leu Glu Gly Lys Asp Ala Gly Lys Gln Gly Lys Val Val Gln Val Ile
 65           70           75           80

Arg Gln Arg Asn Trp Val Val Val Gly Gly Leu Asn Thr His Tyr Arg
          85           90           95

Tyr Ile Gly Lys Thr Met Asp Tyr Arg Gly Thr Met Ile Pro Ser Glu
          100          105          110

Ala Pro Leu Leu His Arg Gln Val Lys Leu Val Asp Pro Met Asp Arg
          115          120          125

Lys Pro Thr Glu Ile Glu Trp Arg Phe Thr Glu Ala Gly Glu Arg Val
          130          135          140

Arg Val Ser Thr Arg Ser Gly Arg Ile Ile Pro Lys Pro Glu Phe Pro
          145          150          155          160

Arg Ala Asp Gly Ile Val Pro Glu Thr Trp Ile Asp Gly Pro Lys Asp
          165          170          175

Thr Ser Val Glu Asp Ala Leu Glu Arg Thr Tyr Val Pro Cys Leu Lys
          180          185          190

Thr Leu Gln Glu Glu Val Met Glu Ala Met Gly Ile Lys Glu Thr Arg
          195          200          205

Lys Tyr Lys Lys Val Tyr Trp Tyr
          210          215

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<210> 131

<211> 49

<212> PRT

<213> Homo sapiens

<400> 131

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Met Ser Leu Arg Gln Lys Ser Ser Phe Arg Leu Met Val Met Ser Leu
 1           5           10           15

Thr Ile Leu Lys Leu Ser Lys Thr Thr Val Leu Cys Leu Arg Cys Leu
          20           25           30

His Ser Leu Lys Leu Thr Trp Arg Asp Gly Ala Arg Cys Ile Asn Ala
          35           40           45

Glu

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<210> 132  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Met Ser Gly Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser  
   1                  5                  10                  15  
 Pro Gln Ala Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg  
                   20                  25                  30  
 Lys Ser Tyr Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln  
                   35                  40                  45  
 Gly Met Gly Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser  
           50                  55                  60  
 Ala Asn Gln Gly  
   65

<210> 133  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Met Cys Phe Arg Phe Phe Leu Phe Cys Ser Arg Ile Leu Leu Lys Leu  
   1                  5                  10                  15  
 Phe Phe Leu Leu Phe Pro Ala Ser Ala Phe Pro Leu Ser Thr Arg Ser  
                   20                  25                  30  
 Ser Leu Ser Val Asn Glu His Val Val Val Ser Pro Arg Ser Thr Val  
           35                  40                  45  
 Ser Ile Ser Arg  
   50

<210> 134  
 <211> 540  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (137)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 134  
 Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln  
   1                  5                  10                  15  
 Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly  
                   20                  25                  30  
 Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser  
           35                  40                  45

Met Phe Pro His Arg Ser Glu Lys Asp Met Leu Ala Ser Pro Ser Thr  
 50 55 60  
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser  
 65 70 75 80  
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu  
 85 90 95  
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro  
 100 105 110  
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser  
 115 120 125  
 Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln  
 130 135 140  
 Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Ser Ser  
 145 150 155 160  
 Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met  
 165 170 175  
 Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Ser Met Ser  
 180 185 190  
 Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu  
 195 200 205  
 Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly  
 210 215 220  
 Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu  
 225 230 235 240  
 Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala  
 245 250 255  
 Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp  
 260 265 270  
 Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr  
 275 280 285  
 Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr  
 290 295 300  
 Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp  
 305 310 315 320  
 Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln  
 325 330 335  
 Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr  
 340 345 350  
 Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu  
 355 360 365  
 Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr  
 370 375 380  
 Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala  
 385 390 395 400



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<210> 135
<211> 57
<212> PRT
<213> Homo sapiens
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<210> 136
<211> 201
<212> PRT
<213> Homo sapiens
```

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<400> 136
Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
  1             5             10             15
Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
          20          25          30
Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
          35          40          45
Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
  50          55          60

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Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg  
 65 70 75 80  
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu  
 85 90 95  
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile  
 100 105 110  
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val  
 115 120 125  
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile  
 130 135 140  
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val  
 145 150 155 160  
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu  
 165 170 175  
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu  
 180 185 190  
 Glu Lys Arg Asn Lys Ser Lys Lys Lys  
 195 200

<210> 137  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Met Phe Leu Arg Leu Tyr Leu Ile Ala Arg Val Met Leu Leu His Ser  
 1 5 10 15  
 Lys Leu Phe Thr Asp Ala Ser Ser Arg Ser Ile Gly Ala Leu Asn Lys  
 20 25 30  
 Ile Asn Phe Asn Thr Arg Phe Val Met Lys Thr Leu Met Thr Ile Cys  
 35 40 45  
 Pro Gly Thr Val Leu Leu Val Phe Ser Ile Ser Leu Trp Ile Ile Ala  
 50 55 60  
 Ala Trp Thr Val Arg Val Cys Glu Ser Pro Glu Ser Pro Ala Gln Pro  
 65 70 75 80  
 Ser Gly Ser Ser Leu Pro Ala Trp Tyr His Asp Gln Gln Asp Val Thr  
 85 90 95  
 Ser Asn Phe Leu Gly Ala Met Trp Leu Ile Ser Ile Thr Phe Leu Ser  
 100 105 110  
 Ile Gly Tyr Gly Asp Met Val Pro His Thr Tyr Cys Gly Lys Gly Val  
 115 120 125  
 Cys Leu Leu Thr Gly Ile Met Gly Ala Gly Cys Thr Ala Leu Val Val  
 130 135 140  
 Ala Val Val Ala Arg Lys Leu Glu Leu Thr Lys Ala Glu Lys His Val  
 145 150 155 160

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<210> 138
<211> 102
<212> PRT
<213> Homo sapiens
```

```
<210> 139
<211> 112
<212> PRT
<213> Homo sapiens
```

```

<400> 139
Met Arg Glu Cys Gln Glu Glu Ser Phe Trp Lys Arg Ala Leu Pro Phe
  1                               5          10          15
Ser Leu Val Ser Met Leu Val Thr Gln Gly Leu Val Tyr Gln Gly Tyr
      20          25          30
Leu Ala Ala Asn Ser Arg Phe Gly Ser Leu Pro Lys Val Ala Leu Ala
    35          40          45
Gly Leu Leu Gly Phe Gly Leu Gly Lys Val Ser Tyr Ile Gly Val Cys
  50          55          60
Gln Ser Lys Phe His Phe Phe Glu Asp Gln Leu Arg Gly Ala Gly Phe
  65          70          75          80
Gly Pro Gln His Asn Arg His Cys Leu Leu Thr Cys Glu Glu Cys Lys
      85          90          95

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Ile Lys His Gly Leu Ser Glu Lys Gly Asp Ser Gln Pro Ser Ala Ser  
 100 105 110

<210> 140  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 140  
 Met Lys Asn Asp Arg Asn Gln Gly Phe Ser Leu Leu Gln Leu Ile Asp  
 1 5 10 15  
 Trp Asn Lys Pro  
 20

<210> 141  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 141  
 Met Gly Thr Gln Pro Pro Val Val Ala Gly Phe Thr Ile Pro Met Leu  
 1 5 10 15  
 Gly Tyr Thr Val Arg Val Leu Thr Phe His Leu Ser Cys Ser  
 20 25 30

<210> 142  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 142  
 Met Lys Ile Pro Val Leu Pro Ala Val Val Leu Leu Ser Leu Leu Val  
 1 5 10 15  
 Leu His Ser Ala Gln Gly Ala Thr Leu Gly Gly Pro Glu Glu Glu Ser  
 20 25 30  
 Thr Ile Glu Asn Tyr Ala Ser Arg Pro Glu Ala Phe Asn Thr Pro Phe  
 35 40 45  
 Leu Asn Ile Asp Lys Leu Arg Ser Ala Phe Lys Ala Asp Glu Phe Leu  
 50 55 60  
 Asn Trp His Ala Leu Phe Glu Ser Ile Lys Arg Lys Leu Pro Phe Leu  
 65 70 75 80  
 Asn Trp Asp Ala Phe Pro Lys Leu Lys Gly Leu Arg Ser Ala Thr Pro  
 85 90 95  
 Asp Ala Gln

<210> 143

<211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 143  
 Met Val Trp Gly Leu Leu Gly  
           1                  5

<210> 144  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (30)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 144  
 Met Leu Pro Leu Leu Ser Leu Leu Phe Leu Phe Phe Ser Thr Val Ser  
           1                  5                  10                  15  
 Ser Phe Cys Gly Met Pro Leu Arg Ala His Thr Arg Ala Xaa Ala His  
                   20                  25                  30  
 Thr Arg Thr Phe Ala Ser Arg  
                   35

<210> 145  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 145  
 Met Ile Cys Glu Thr Lys Ala Arg Lys Ser Ser Gly Gln Pro Gly Arg  
           1                  5                  10                  15  
 Leu Pro Pro Pro Thr Leu Ala Pro Pro Gln Pro Pro Leu Pro Glu Thr  
                   20                  25                  30  
 Ile Glu Arg Pro Val Gly Thr Gly Ala Met Val Ala Arg Ser Ser Asp  
           35                  40                  45  
 Leu Pro Tyr Leu Ile Val Gly Val Val Leu Gly Ser Ile Val Leu Ile  
           50                  55                  60  
 Ile Val Thr Phe Ile Pro Phe Cys Leu Trp Arg Ala Trp Ser Lys Gln  
           65                  70                  75                  80  
 Lys His Thr Thr Asp Leu Gly Phe Pro Arg Ser Ala Leu Pro Pro Ser  
                   85                  90                  95  
 Cys Pro Tyr Thr Met Val Pro Leu Gly Gly Leu Pro Gly His Gln Ala  
           100                  105                  110  
 Val Asp Ser Pro Thr Ser Val Ala Ser Val Asp Gly Pro Val Leu Met  
           115                  120                  125  
 Gly Ser Thr  
           130

<210> 146  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 146  
 Met Gly Ala Pro Ser Leu Thr Met Leu Leu Leu Leu Lys Val Gln Pro  
 1 5 10 15  
 Arg Arg Thr Gln Ala Phe Asp Ala His Trp Val Gly Leu Pro Leu Leu  
 20 25 30

<210> 147  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 147  
 Met Cys Leu Ile Phe Leu Leu Leu Leu Leu Ser Phe Ser  
 1 5 10

<210> 148  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 148  
 His Pro His Gln Asp Ser Gln Pro  
 1 5

<210> 149  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 149  
 Met Asn Thr Ser Tyr Ile Leu Arg Leu Thr Val Val Val Ser Val Val  
 1 5 10 15  
 Ile Tyr Leu Ala Ile His Pro Leu Leu Ser Phe Ser Leu Glu Ser Pro  
 20 25 30  
 Leu Leu Val Pro Trp Arg Asp Cys Cys Gln Asn Ile Trp Lys Ser Gly  
 35 40 45  
 Ser Val Trp Tyr Lys Arg Trp Thr Leu Pro His Met Glu Val Cys Cys  
 50 55 60  
 Gln Asp Leu His  
 65

<210> 150  
 <211> 26

<212> PRT  
 <213> Homo sapiens

<400> 150  
 Met Leu Lys Ile Phe Lys Glu Trp Glu Asn Leu Asn Leu Ile Leu Thr  
   1                  5                  10                  15  
 Ser Ile Arg Ile Leu Glu Arg Gln Asn Met  
           20                  25

<210> 151  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<400> 151  
 Met Asp Cys Glu Val Asn Asn Gly Ser Ser Leu Arg Asp Glu Cys Ile  
   1                  5                  10                  15  
 Thr Asn Leu Leu Val Phe Gly Phe Leu Gln Ser Cys Ser Asp Asn Ser  
           20                  25                  30  
 Phe Arg Arg Glu Leu Asp Ala Leu Gly His Glu Leu Pro Val Leu Ala  
           35                  40                  45  
 Pro Gln Trp Glu Gly Tyr Asp Glu Leu Gln Thr Asp Gly Asn Arg Ser  
           50                  55                  60  
 Ser His Ser Arg Leu Gly Arg Ile Glu Ala Asp Ser Glu Ser Gln Glu  
           65                  70                  75                  80  
 Asp Ile Ile Arg Asn Ile Ala Arg His Leu Ala Gln Val Gly Asp Ser  
           85                  90                  95  
 Met Asp Arg Ser Ile Pro Pro Gly Leu Val Asn Gly Leu Ala Leu Gln  
           100                  105                  110  
 Leu Arg Asn Thr Ser Arg Ser Glu Glu Asp Arg Asn Arg Asp Leu Ala  
           115                  120                  125  
 Thr Ala Leu Glu Gln Leu Leu Gln Ala Tyr Pro Arg Asp Met Glu Lys  
           130                  135                  140  
 Glu Lys Thr Met Leu Val Leu Ala Leu Leu Leu Ala Lys Lys Val Ala  
           145                  150                  155                  160  
 Ser His Thr Pro Ser Leu Leu Arg Asp Val Phe His Thr Thr Val Asn  
           165                  170                  175  
 Phe Ile Asn Gln Asn Leu Arg Thr Tyr Val Arg Ser Leu Ala Arg Asn  
           180                  185                  190  
 Gly Met Asp  
           195

<210> 152  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE

<222> (85)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (87)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 152

Met Ser Leu Ser Leu Val Ser Val Ser Val Gly Pro Ser Thr Leu Ala  
1 5 10 15

Cys Ser Phe Leu Arg Pro Lys Ala Arg Pro Ser Lys Arg Ser Pro Arg  
20 25 30

Asn Tyr Thr Asp Ser Thr Ser Pro Gly Gly Pro Arg Ala Pro Arg Gly  
35 40 45

Gly Ala Trp Arg Leu Ser Ser Gln Gln Asn Ser Ser Pro Lys Gly Val  
50 55 60

Ala Val Ala Lys Ala Ser Tyr Arg Pro Val Leu Cys Phe Leu Pro Gly  
65 70 75 80

Pro Trp Ser Ser Xaa Pro Xaa Ala Phe Leu Ile  
85 90

<210> 153

<211> 31

<212> PRT

<213> Homo sapiens

<400> 153

Met Gly Thr Leu Ser Ala Glu Cys Ser Gly Pro Ala Thr Leu Gly Leu  
1 5 10 15

Cys Leu Val Val Pro Trp Asn Ser Ser Gly Leu Ser Gln Pro Pro  
20 25 30

<210> 154

<211> 90

<212> PRT

<213> Homo sapiens

<400> 154

Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu  
1 5 10 15

Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro  
20 25 30

Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala  
35 40 45

Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala  
50 55 60

Ala Ser Thr Thr Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val  
65 70 75 80





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<400> 159
Met Leu Met Ala Pro Val Val Cys Leu Ser Phe Ser Pro Cys Pro Ala
 1          5          10          15
Asp Thr Ser Leu Thr Gly Asp Gly Leu Lys Ala Gly Leu Glu Arg Gly
          20          25          30
Xaa Ala Leu Val Thr Leu Phe Asp Ser Val Thr His Phe Leu Ala His
          35          40          45
Thr Leu Phe Glu Leu Leu Asp Phe Gln Leu Ala Phe Leu Arg Ser Gly
          50          55          60
Lys Gln Thr Ala Pro His
 65          70

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<210> 160  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens.

<400> 160

Met Leu Leu Leu Leu Leu Leu Leu Gly Ser Gly Gln Gly Pro Gln Gln  
 1 5 10 15

Val Gly Ala Gly Gln Thr Phe Glu Tyr Leu Lys Arg Glu His Ser Leu  
 20 25 30

Ser Lys Pro Tyr Gln Gly Val Gly Thr Gly Ser Ser Ser Leu Trp Asn  
 35 40 45

Leu Met Gly Asn Ala Met Val Met Thr Gln Tyr Ile Arg Leu Thr Pro  
 50 55 60

Asp Met Gln Ser Lys Gln Gly Ala Leu Trp Asn Arg Val Pro Cys Phe  
 65 70 75 80

Leu Arg Asp Trp Glu Leu Gln Val His Phe Lys Ile His Gly Gln Gly  
 85 90 95

Lys Lys Asn Leu His Gly Asp Gly Leu Ala Ile Trp Tyr Thr Arg Asn  
 100 105 110

Arg Met Gln Pro Gly Pro Val Phe Gly Asn Met Asp Lys Phe Val Gly  
 115 120 125

Leu Gly Val Phe Val Asp Thr Tyr Pro Asn Glu Glu Lys Gln Gln Glu  
 130 135 140

Arg Val Phe Pro Tyr Ile Ser Ala Met Val Asn Asn Gly Ser Leu Ser  
 145 150 155 160

Tyr Asp His Glu Arg Asp Gly Arg Pro Thr Glu Leu Gly Gly Cys Thr  
 165 170 175

Ala Ile Val Arg Asn Leu His Tyr Asp Thr Phe Leu Val Ile Arg Tyr  
 180 185 190

Val Lys Arg His Leu Thr Ile Met Met Asp Ile Asp Gly Lys His Glu  
 195 200 205

Trp Arg Asp Cys Ile Glu Val Pro Gly Val Arg Leu Pro Arg Gly Tyr  
 210 215 220

Tyr Phe Gly Thr Ser Ser Ile Thr Gly Asp Leu Ser Asp Asn His Asp  
 225 230 235 240

Val Ile Ser Leu Lys Leu Phe Glu Leu Thr Val Glu Arg Thr Pro Glu  
 245 250 255

Glu Glu Lys Leu His Arg Asp Val Phe Leu Pro Ser Val Asp Asn Met  
 260 265 270

Lys Leu Pro Glu Met Thr Ala Pro Leu Pro Pro Leu Ser Gly Leu Ala  
 275 280 285

Leu Phe Leu Ile Val Phe Phe Ser Leu Val Phe Ser Val Phe Ala Ile  
 290 295 300

Val Ile Gly Ile Ile Leu Tyr Asn Lys Trp Gln Glu Gln Ser Arg Lys  
 305 310 315 320

Arg Phe Tyr

<210> 161  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (120)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (292)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 161  
 Met Pro Ser Glu Tyr Thr Tyr Val Lys Leu Arg Ser Asp Cys Ser Arg  
   1                  5                  10                  15  
 Pro Ser Leu Gln Trp Tyr Thr Arg Ala Gln Ser Lys Met Arg Arg Pro  
                   20                  25                  30  
 Ser Leu Leu Leu Lys Asp Ile Leu Lys Cys Thr Leu Leu Val Phe Gly  
           35                  40                  45  
 Val Trp Ile Leu Tyr Ile Leu Lys Leu Asn Tyr Thr Thr Glu Glu Cys  
   50                  55                  60  
 Asp Met Lys Lys Met His Tyr Val Asp Pro Asp His Val Lys Arg Ala  
   65                  70                  75                  80  
 Gln Lys Tyr Ala Gln Gln Val Leu Gln Lys Glu Cys Arg Pro Lys Phe  
                   85                  90                  95  
 Ala Lys Thr Ser Met Ala Leu Leu Phe Glu His Arg Tyr Ser Val Asp  
           100                  105                  110  
 Leu Leu Pro Phe Val Gln Lys Xaa Pro Lys Asp Ser Glu Ala Glu Ser  
   115                  120                  125  
 Lys Tyr Asp Pro Pro Phe Gly Phe Arg Lys Phe Ser Ser Lys Val Gln  
   130                  135                  140  
 Thr Leu Leu Glu Leu Leu Pro Glu His Asp Leu Pro Glu His Leu Lys  
   145                  150                  155                  160  
 Ala Lys Thr Cys Arg Arg Cys Val Val Ile Gly Ser Gly Gly Ile Leu  
           165                  170                  175  
 His Gly Leu Glu Leu Gly His Thr Leu Asn Gln Phe Asp Val Val Ile  
           180                  185                  190  
 Arg Leu Asn Ser Ala Pro Val Glu Gly Tyr Ser Glu His Val Gly Asn  
   195                  200                  205  
 Lys Thr Thr Ile Arg Met Thr Tyr Pro Glu Gly Ala Pro Leu Ser Asp  
   210                  215                  220

Leu Glu Tyr Tyr Ser Asn Asp Leu Phe Val Ala Val Leu Phe Lys Ser  
 225 230 235 240  
 Val Asp Phe Asn Trp Leu Gln Ala Met Val Lys Lys Glu Thr Leu Pro  
 245 250 255  
 Phe Trp Val Arg Leu Phe Phe Trp Lys Gln Val Ala Glu Lys Ile Pro  
 260 265 270  
 Leu Gln Pro Lys His Phe Arg Ile Leu Asn Pro Val Ile Ile Lys Glu  
 275 280 285  
 Thr Ala Phe Xaa His Pro Ser Val Leu Arg Ala Ser Val Lys Val Leu  
 290 295 300  
 Gly Ala Glu Ile Arg Thr Ser Pro Gln Ser Val Ser Leu Pro Leu Ser  
 305 310 315 320

<210> 162  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 162  
 Met Thr Leu Asp Val Gln Thr Val Val Val Phe Ala Val Ile Val Val  
 1 5 10 15  
 Leu Leu Leu Val Asn Val Ile Leu Met Phe Phe Leu Gly Thr Arg  
 20 25 30

<210> 163  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (26)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (68)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (69)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (70)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

&lt;400&gt; 163

Met Leu Pro Leu Leu Phe Cys Ala Phe Cys Leu His Lys Leu Gly Pro  
 1 5 10 15  
 Leu Leu Phe Leu Tyr Asp Val Leu Met Xaa His Glu Ala Val Met Arg  
 20 25 30  
 Thr His Gln Ile Gln Leu Pro Asp Pro Glu Phe Pro Ser Gln Gln Asn  
 35 40 45  
 Gln Val Leu Asn Lys Thr Leu Phe Asn Lys Leu Lys Lys Lys Lys  
 50 55 60  
 Lys Lys Lys Xaa Xaa Xaa Lys Lys  
 65 70

&lt;210&gt; 164

&lt;211&gt; 281

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro Pro Glu Leu  
 1 5 10 15  
 Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn Ser Arg Met  
 20 25 30  
 Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu Leu Leu Tyr  
 35 40 45  
 Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly Cys Gly Thr  
 50 55 60  
 Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr Trp Val Gly  
 65 70 75 80  
 Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp Arg Glu Ile  
 85 90 95  
 Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile Pro Phe Lys  
 100 105 110  
 Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val Gln Trp Leu  
 115 120 125  
 Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg Leu Tyr Cys  
 130 135 140  
 Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser Arg Ala Val  
 145 150 155 160  
 Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu Ile Thr Thr  
 165 170 175  
 Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val Asp Tyr Pro  
 180 185 190  
 Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe Ser Gly Pro  
 195 200 205  
 Ser Thr Phe Ile Pro Glu Gly Leu Ser Glu Asn Gln Asp Glu Val Glu  
 210 215 220

Pro Arg Glu Ser Val Phe Thr Asn Glu Arg Phe Pro Leu Arg Met Ser  
 225 230 235 240  
 Arg Arg Gly Met Val Arg Lys Ser Arg Ala Trp Val Leu Glu Lys Lys  
 245 250 255  
 Glu Arg His Arg Arg Gln Gly Arg Glu Val Arg Pro Asp Thr Gln Tyr  
 260 265 270  
 Thr Gly Arg Lys Arg Lys Pro Arg Phe  
 275 280

<210> 165  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 165  
 Met Glu Lys Ile Pro Glu Val Thr Asn Ser Asn Ser Ser Phe His Ala  
 1 5 10 15  
 His Asp Leu Gly Phe Cys Val Leu Ser Ile Ala Thr Ser Lys Ser Arg  
 20 25 30  
 Lys Ala Pro Ala Pro His Ala Gln Lys Cys Asn Leu Lys Ser Leu Arg  
 35 40 45  
 Ser Ser Ala Gln Thr Asp Ile Asn Lys Pro Val Phe Ser Leu His Pro  
 50 55 60  
 Glu Pro Pro Gly Lys Ser Gly Ala Gln Thr Gln Ser Lys Ala Pro Phe  
 65 70 75 80  
 Leu

<210> 166  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (300)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 166  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
 1 5 10 15  
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
 20 25 30  
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
 35 40 45  
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
 50 55 60  
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
 65 70 75 80





Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile  
           50                          55                          60

Leu  
   65

<210> 168  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 168  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
   1                          5                          10                          15  
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser  
                   20                          25                          30  
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp  
           35                          40                          45  
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro  
           50                          55                          60  
 Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile  
   65                          70                          75                          80  
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys  
                   85                          90                          95  
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu  
                   100                          105                          110  
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu  
           115                          120                          125  
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser  
           130                          135                          140  
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr  
   145                          150                          155

<210> 169  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (3)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (65)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (88)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (99)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (100)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (101)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 169

Met Ala Xaa His Phe Leu Leu Val Ala Leu Gln Ser Val Pro His Cys  
1 5 10 15

Pro His Leu Leu Glu Glu Glu His Lys Leu Cys Lys Val Ser His Phe  
20 25 30

Ser Gly Val Thr Leu Val Thr Ser Arg Gln Asp Ser Ser Ser Tyr Val  
35 40 45

Pro Val Gln Thr Leu Phe Ile His Leu Gly Pro Trp Ala Trp Asp Leu  
50 55 60

Xaa Pro Cys Thr Ala Glu Asp Pro Glu Ala Glu Arg Ser Leu Arg Leu  
65 70 75 80

Cys His Ser His Leu Ala Arg Xaa Asn Val Ser Pro Ser Gln Ala Ala  
85 90 95

Glu Gly Xaa Xaa Xaa Arg Gly Cys Gln His Arg Gly Ser Arg Glu Leu  
100 105 110

Thr Phe Leu Ser Ala Glu Asn Glu Ala Gly Ile  
115 120

<210> 170

<211> 129

<212> PRT

<213> *Homo sapiens*

<400> 170

Met Lys Val Gly Ala Arg Ile Arg Val Lys Met Ser Val Asn Lys Ala  
1 5 10 15

His Pro Val Val Ser Thr His Trp Arg Trp Pro Ala Glu Trp Pro Gln  
20 25 30

Met Phe Leu His Leu Ala Gln Glu Pro Arg Thr Glu Val Lys Ser Arg  
35 40 45

Pro Leu Gly Leu Ala Gly Phe Ile Arg Gln Asp Ser Lys Thr Arg Lys  
50 55 60

Pro Leu Glu Gln Glu Thr Ile Met Ser Ala Ala Asp Thr Ala Leu Trp  
 65 70 75 80  
 Pro Tyr Gly His Gly Asn Arg Glu His Gln Glu Asn Glu Leu Gln Lys  
 85 90 95  
 Tyr Leu Gln Tyr Lys Asp Met His Leu Leu Asp Ser Gly Gln Ser Leu  
 100 105 110  
 Gly His Thr His Thr Leu Gln Gly Ser His Asn Leu Thr Ala Leu Asn  
 115 120 125  
 Ile

<210> 171  
 <211> 372  
 <212> PRT  
 <213> Homo sapiens

<400> 171  
 Met Ala Tyr His Ser Phe Leu Val Glu Pro Ile Ser Cys His Ala Trp  
 1 5 10 15  
 Asn Lys Asp Arg Thr Gln Ile Ala Ile Cys Pro Asn Asn His Glu Val  
 20 25 30  
 His Ile Tyr Glu Lys Ser Gly Ala Lys Trp Thr Lys Val His Glu Leu  
 35 40 45  
 Lys Glu His Asn Gly Gln Val Thr Gly Ile Asp Trp Ala Pro Glu Ser  
 50 55 60  
 Asn Arg Ile Val Thr Cys Gly Thr Asp Arg Asn Ala Tyr Val Trp Thr  
 65 70 75 80  
 Leu Lys Gly Arg Thr Trp Lys Pro Thr Leu Val Ile Leu Arg Ile Asn  
 85 90 95  
 Arg Ala Ala Arg Cys Val Arg Trp Ala Pro Asn Glu Asn Lys Phe Ala  
 100 105 110  
 Val Gly Ser Gly Ser Arg Val Ile Ser Ile Cys Tyr Phe Glu Gln Glu  
 115 120 125  
 Asn Asp Trp Trp Val Cys Lys His Ile Lys Lys Pro Ile Arg Ser Thr  
 130 135 140  
 Val Leu Ser Leu Asp Trp His Pro Asn Asn Val Leu Leu Ala Ala Gly  
 145 150 155 160  
 Ser Cys Asp Phe Lys Cys Arg Ile Phe Ser Ala Tyr Ile Lys Glu Val  
 165 170 175  
 Glu Glu Arg Pro Ala Pro Thr Pro Trp Gly Ser Lys Met Pro Phe Gly  
 180 185 190  
 Glu Leu Met Phe Glu Ser Ser Ser Ser Cys Gly Trp Val His Gly Val  
 195 200 205  
 Cys Phe Ser Ala Ser Gly Ser Arg Val Ala Trp Val Ser His Asp Ser  
 210 215 220

171  
372  
PRT  
Homo sapiens  
171  
Met Ala Tyr His Ser Phe Leu Val Glu Pro Ile Ser Cys His Ala Trp  
1 5 10 15  
Asn Lys Asp Arg Thr Gln Ile Ala Ile Cys Pro Asn Asn His Glu Val  
20 25 30  
His Ile Tyr Glu Lys Ser Gly Ala Lys Trp Thr Lys Val His Glu Leu  
35 40 45  
Lys Glu His Asn Gly Gln Val Thr Gly Ile Asp Trp Ala Pro Glu Ser  
50 55 60  
Asn Arg Ile Val Thr Cys Gly Thr Asp Arg Asn Ala Tyr Val Trp Thr  
65 70 75 80  
Leu Lys Gly Arg Thr Trp Lys Pro Thr Leu Val Ile Leu Arg Ile Asn  
85 90 95  
Arg Ala Ala Arg Cys Val Arg Trp Ala Pro Asn Glu Asn Lys Phe Ala  
100 105 110  
Val Gly Ser Gly Ser Arg Val Ile Ser Ile Cys Tyr Phe Glu Gln Glu  
115 120 125  
Asn Asp Trp Trp Val Cys Lys His Ile Lys Lys Pro Ile Arg Ser Thr  
130 135 140  
Val Leu Ser Leu Asp Trp His Pro Asn Asn Val Leu Leu Ala Ala Gly  
145 150 155 160  
Ser Cys Asp Phe Lys Cys Arg Ile Phe Ser Ala Tyr Ile Lys Glu Val  
165 170 175  
Glu Glu Arg Pro Ala Pro Thr Pro Trp Gly Ser Lys Met Pro Phe Gly  
180 185 190  
Glu Leu Met Phe Glu Ser Ser Ser Ser Cys Gly Trp Val His Gly Val  
195 200 205  
Cys Phe Ser Ala Ser Gly Ser Arg Val Ala Trp Val Ser His Asp Ser  
210 215 220

Thr Val Cys Leu Ala Asp Ala Asp Lys Lys Met Ala Val Ala Thr Leu  
 225 230 235 240  
 Ala Ser Glu Thr Leu Pro Leu Leu Ala Leu Thr Phe Ile Thr Asp Asn  
 245 250 255  
 Ser Leu Val Ala Ala Gly His Asp Cys Phe Pro Val Leu Phe Thr Tyr  
 260 265 270  
 Asp Ala Ala Ala Gly Met Leu Ser Phe Gly Gly Arg Leu Asp Val Pro  
 275 280 285  
 Lys Gln Ser Ser Gln Arg Gly Leu Thr Ala Arg Glu Arg Phe Gln Asn  
 290 295 300  
 Leu Asp Lys Lys Ala Ser Ser Glu Gly Gly Thr Ala Ala Gly Ala Gly  
 305 310 315 320  
 Leu Asp Ser Leu His Lys Asn Ser Val Ser Gln Ile Ser Val Leu Ser  
 325 330 335  
 Gly Gly Lys Ala Lys Cys Ser Gln Phe Cys Thr Thr Gly Met Asp Gly  
 340 345 350  
 Gly Met Ser Ile Trp Asp Val Lys Ser Leu Glu Ser Ala Leu Lys Asp  
 355 360 365  
 Leu Lys Ile Lys  
 370

<210> 172  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<400> 172  
 Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu Ala Leu  
 1 5 10 15  
 Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys Ala Ala  
 20 25 30  
 Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys Glu Pro  
 35 40 45  
 Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala Val Ile  
 50 55 60  
 Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu Ala Ala  
 65 70 75 80  
 Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val Pro Leu  
 85 90 95  
 Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp Phe Gln  
 100 105 110  
 Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys Phe Tyr  
 115 120 125  
 Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg Leu Gly  
 130 135 140  
 Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser Gly Asn

145                      150                      155                      160  
 Leu Glu Gly Glu Gly Phe Ile Leu Gly Gly Val Phe Val Val Gly Ser  
                                  165                      170                      175  
 Gly Lys Gln Gly Ile Leu Leu Glu His Arg Glu Lys Glu Phe Gly Asp  
                                  180                      185                      190  
 Lys Val Asn Leu Leu Ser Val Leu Glu Ala Ala Lys Met Ile Lys Pro  
                                  195                      200                      205  
 Gln Thr Leu Ala Ser Glu Lys Lys  
                                  210                      215

<210> 173  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 173  
 Met Lys Pro Val Ser Arg Arg Thr Leu Asp Trp Ile Tyr Ser Val Leu  
   1                                  5                                  10                                  15  
 Leu Leu Ala Ile Val Leu Ile Ser Trp Gly Cys Ile Ile Tyr Ala Ser  
                                   20                                  25                                  30  
 Met Val Ser Ala Arg Arg Gln Leu Arg Lys Lys Tyr Pro Asp Lys Ile  
                                   35                                  40                                  45  
 Phe Gly Thr Asn Glu Asn Leu  
                                   50                                  55

<210> 174  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (19)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 174  
 Met Ala Ala Asn Thr Phe Val Leu Ile Met Gly Ile Pro Thr Ser Ala  
   1                                  5                                  10                                  15  
 Asn Ala Xaa Arg Asp Leu Phe  
                                   20

<210> 175  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Ser Ile Cys His Arg Gly Thr Gly Ile Ala Leu Ser Ala Gly Val  
   1                                  5                                  10                                  15  
 Ser Leu Phe Gly Met Ser Ala Leu Leu Leu Pro Gly Asn Phe Glu Ser

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<210> 176
<211> 48
<212> PRT
<213> Homo sapiens
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<400> 176
Met Thr Lys Ala Ser Ser Leu Trp Pro Leu Lys Thr Thr Cys Gln Ile
  1                      5                      10                      15

Ser Gly Thr Val Phe Phe Phe Leu Phe Leu Phe Ser Cys Phe Leu Met
          20                      25                      30

Gln Ala Gln Cys Asp Lys Phe Val Gly Trp Asp Phe Phe Phe Leu
      35          40          45

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<210> 177
<211> 96
<212> PRT
<213> Homo sapiens
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<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa equals any of the L-amino acids commonly found in naturally
      occurring proteins
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<400> 177
Met  Arg  Arg  Ala  Leu  Ile  Pro  Pro  Cys  Arg  Gly  Gly  Pro  Ser  Ala  Ser
   1              5              10              15
Asp  Xaa  Cys  Cys  Ser  Cys  Ser  Pro  Ser  Gly  Phe  Ser  Ala  Gly  Arg  Gly
              20              25              30
Arg  Cys  Pro  Val  Gln  Gly  Cys  Leu  Arg  Pro  His  Arg  Val  Gln  Leu  Leu
              35              40              45
Arg  Arg  Trp  Gly  Pro  Gly  Ser  Pro  Ala  Gly  Gln  Arg  Leu  Ser  Lys  Gly
   50              55              60
Phe  Gln  Leu  Leu  Arg  Trp  Trp  Gly  Pro  Gly  Ser  Pro  Ala  Pro  Glu  Pro
   65              70              75              80

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Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp Pro Val Thr Leu  
                   85                                  90                                  95

<210> 178  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (70)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 178  
 Met Leu Glu Thr Thr Lys His Val Gln Ile Ala Cys Met Leu Leu Leu  
   1                  5                  10                  15  
 Thr Cys Gln Ile Phe Leu Pro Ser Ser Leu Ser Pro Ser Phe Ile His  
           20                          25                  30  
 Ser Leu Thr Asp Ser Phe Ile Pro Leu Lys Lys Leu Tyr Val Cys Phe  
           35                  40                  45  
 Val Gln Ser Thr Leu Leu Lys Ala Ala Gly Tyr Lys Ser Ile Ser Glu  
   50                  55                  60  
 Ala Leu Gly Phe Asp Xaa Leu Leu Cys Ser Ser Ala Arg Phe Val Trp  
   65                  70                  75                  80  
 Ile Cys His Thr Tyr Ser Arg Pro Leu Val Thr Cys Ala Leu His  
           85                  90                  95

<210> 179  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 179  
 Met Ser Val Ile Gly Gly Leu Leu Leu Val Val Ala Leu Gly Pro Gly  
   1                  5                  10                  15  
 Gly Val Ser Met Asp Glu Lys Lys Lys Glu Trp  
           20                  25

<210> 180  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (12)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE

<222> (13)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (72)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 180

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln  
1 5 10 15

Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser  
20 25 30

Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln  
35 40 45

Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly  
50 55 60

Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe  
65 70 75 80

Val Lys Arg Glu Ser Gln Ala Tyr Ala  
85

<210> 181

<211> 65

<212> PRT

<213> Homo sapiens

<400> 181

Met Phe Ala Asp Phe Ile Val Val Thr Ala Thr Val Gln Arg Cys Pro  
1 5 10 15

Gly Ser Pro Pro Leu Ser Glu Ile Leu Trp Lys Asp Glu Pro Phe Ala  
20 25 30

Ile Ser Ser His Ala Gly Leu Pro Trp Leu Ser Ser Trp Pro Ala Pro  
35 40 45

Pro Trp Thr Trp Ser Trp Ile Ser Arg Arg Arg Glu His Gly Arg Gly  
50 55 60

Ser  
65

<210> 182

<211> 105

<212> PRT

<213> Homo sapiens

<400> 182

Met Ser Ala Leu Thr Arg Leu Ala Ser Phe Ala Arg Val Gly Gly Arg  
1 5 10 15

Leu Phe Arg Ser Gly Cys Ala Arg Thr Ala Gly Asp Gly Gly Val Arg  
20 25 30



His Ala Gly Gly Gly Val His Ile Glu Pro Arg Tyr Arg Gln Phe Pro  
           35                          40                          45  
 Gln Leu Thr Arg Ser Gln Val Phe Gln Ser Glu Phe Phe Ser Gly Leu  
           50                          55                          60  
 Met Trp Phe Trp Ile Leu Trp Arg Phe Trp His Asp Ser Glu Glu Val  
           65                          70                          75                          80  
 Leu Gly His Phe Pro Tyr Pro Asp Pro Ser Gln Trp Thr Asp Glu Glu  
                           85                          90                          95  
 Leu Gly Ile Pro Pro Asp Asp Glu Asp  
                           100                          105

<210> 183  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Met Asp Val Leu Phe Val Ala Ile Phe Ala Val Pro Leu Ile Leu Gly  
   1                          5                          10                          15  
 Gln Glu Tyr Glu Asp Glu Glu Arg Leu Gly Glu Asp Glu Tyr Tyr Gln  
                           20                          25                          30  
 Val Val Tyr Tyr Tyr Thr Val Thr Pro Ser Tyr Asp Asp Phe Ser Ala  
                           35                          40                          45  
 Asp Phe Thr Ile Asp Tyr Ser Ile Phe Glu Ser Glu Asp Arg Leu Asn  
           50                          55                          60  
 Arg Leu Asp Lys Asp Ile Thr Glu Ala Ile Glu Thr Thr Ile Ser Leu  
           65                          70                          75                          80  
 Glu Thr Ala Arg Ala Asp His Pro Lys Pro Val Thr Val Lys Pro Val  
                           85                          90                          95  
 Thr Thr Glu Pro Gln Ser Pro Asp Leu Asn Asp Ala Val Ser Ser Leu  
                           100                          105                          110  
 Arg Ser Pro Ile Pro Leu Leu Leu Ser Cys Ala Phe Val Gln Val Gly  
           115                          120                          125  
 Met Tyr Phe Met  
           130

<210> 184  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Met Pro Cys Gln Pro Gly Gln Val Pro Ser Cys Gln Cys Thr Phe Gly  
   1                          5                          10                          15  
 Leu Leu Leu Met Leu Pro Ser Leu Pro Ser Pro Ala Ser Gln Pro Arg  
           20                          25                          30  
 Pro Phe Cys Ser Ser Met Glu Tyr Phe His Gly Cys Ala Ser Pro Ser

35                      40                      45  
 Gln Ala Ile Ile Gly Gly Phe Pro Phe Ala Ser Val Ala Leu Ala Asp  
   50                      55                      60  
 Ile Leu Cys Leu Gln  
   65

<210> 185  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 185  
 Met Ser Leu Leu Ser Pro Ala Ile Pro Ala Leu Thr Leu Ile Phe Ile  
   1                      5                      10                      15  
 Leu Met Phe Phe Ser Phe Pro Phe Arg Ala His Thr Val Val Thr Ile  
                     20                      25                      30  
 Val Ala Ser Gly Phe Leu Gly Leu Ser Pro Leu Cys Gly  
                     35                      40                      45

<210> 186  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 186  
 Met Ala Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro  
   1                      5                      10                      15  
 Leu Gln Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser  
                     20                      25                      30  
 Tyr Gly Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu  
                     35                      40                      45  
 Phe Leu Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg  
   50                      55                      60  
 Ser  
   65

<210> 187  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 187  
 Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys  
   1                      5                      10                      15  
 Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe  
                     20                      25                      30  
 Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe  
                     35                      40                      45  
 Met

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<210> 188  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 188  
 Met Leu Leu Asn Val Ala Leu Val Ala Leu Val Leu Leu Gly Ala Tyr  
 1 5 10 15  
 Arg Leu Trp Val Arg Trp Gly Arg Arg Gly Leu Gly Ala Gly Ala Gly  
 20 25 30  
 Ala Gly Glu Glu Ser Pro Ala Thr Ser Leu Pro Arg Met Lys Lys Arg  
 35 40 45  
 Asp Phe Ser Leu Glu Gln Leu Arg Gln Tyr Asp Gly Ser Arg Asn Pro  
 50 55 60  
 Arg Ile Leu Leu Ala Val Asn Gly Lys Val Phe Asp Val Thr Lys Gly  
 65 70 75 80  
 Ser Lys Phe Tyr Gly Pro Ala Gly Pro Tyr Gly Ile Phe Ala Gly Arg  
 85 90 95  
 Asp Ala Ser Arg Gly Leu Ala Thr Phe Cys Leu Asp Lys Asp Ala Leu  
 100 105 110  
 Arg Asp Glu Tyr Asp Asp Leu Ser Asp Leu Asn Ala Val Gln Met Glu  
 115 120 125  
 Ser Val Arg Glu Trp Glu Met Gln Phe Lys Glu Lys Tyr Asp Tyr Val  
 130 135 140  
 Gly Arg Leu Leu Lys Pro Gly Glu Glu Pro Ser Glu Tyr Thr Asp Glu  
 145 150 155 160  
 Glu Asp Thr Lys Asp His Asn Lys Gln Asp  
 165 170

<210> 189  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp  
 1 5 10 15  
 Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val  
 20 25 30  
 Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met  
 35 40 45  
 Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr  
 50 55 60  
 Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met  
 65 70 75 80

Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala  
                     85                    90                    95  
 Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val  
                     100                    105                    110  
 Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr  
                     115                    120                    125  
 Arg Leu Arg Arg  
                     130

<210> 190  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met Ala Ala Gly Pro Ser Gly Cys Leu Val Pro Ala Phe Gly Leu Arg  
   1                    5                    10                    15  
 Leu Leu Leu Ala Thr Val Leu Gln Ala Val Ser Ala Phe Gly Ala Glu  
                     20                    25                    30  
 Phe Ser Ser Glu Ala Cys Arg Glu Leu Gly Phe Ser Ser Asn Leu Leu  
                     35                    40                    45  
 Cys Ser Ser Cys Asp Leu Leu Gly Gln Phe Asn Leu Leu Gln Leu Asp  
                     50                    55                    60  
 Pro Asp Cys Arg Gly Cys Cys Gln Glu Glu Ala Gln Phe Glu Thr Lys  
                     65                    70                    75                    80  
 Lys Leu Tyr Ala Gly Ala Ile Leu Glu Val Cys Gly  
                     85                    90

<210> 191  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (137)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 191  
 Met Arg Gly Ser His Leu Arg Leu Leu Pro Tyr Leu Val Ala Ala Asn  
   1                    5                    10                    15  
 Pro Val Asn Tyr Gly Arg Pro Tyr Arg Leu Ser Cys Val Glu Ala Phe  
                     20                    25                    30  
 Ala Ala Thr Phe Cys Ile Val Gly Phe Pro Asp Leu Ala Val Ile Leu  
                     35                    40                    45  
 Leu Arg Lys Phe Lys Trp Gly Lys Gly Phe Leu Asp Leu Asn Arg Gln  
                     50                    55                    60  
 Leu Leu Asp Lys Tyr Ala Ala Cys Gly Ser Pro Glu Glu Val Leu Gln  
                     65                    70                    75                    80

Ala Glu Gln Glu Phe Leu Ala Asn Ala Lys Glu Ser Pro Gln Glu Glu  
                             85                            90                            95  
 Glu Ile Asp Pro Phe Asp Val Asp Ser Gly Arg Glu Phe Gly Asn Pro  
                             100                            105                            110  
 Asn Arg Pro Val Ala Ser Thr Arg Leu Pro Ser Asp Thr Asp Asp Ser  
                             115                            120                            125  
 Asp Ala Ser Glu Asp Pro Gly Pro Xaa Ala Glu Arg Gly Gly Ala Ser  
                             130                            135                            140  
 Ser Ser Cys Cys Glu Glu Glu Gln Thr Gln Gly Arg Gly Ala Glu Ala  
                             145                            150                            155                            160  
 Arg Ala Pro Ala Glu Val Trp Lys Gly Ile Lys Lys Arg Gln Arg Asp  
                             165                            170                            175

<210> 192  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Met Ser Asn Ala Cys Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile  
       1                            5                            10                            15  
 Val Val Ser Ala Phe Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu  
                             20                            25                            30  
 Ile Glu Trp Gly Ala Cys Ala Leu Val Leu Thr Gly Asn Thr Val Ile  
                             35                            40                            45  
 Phe Ala Thr Ile Leu Gly Phe Phe Leu Val Phe Gly Ser Asn Asp Asp  
                             50                            55                            60  
 Phe Ser Trp Gln Gln Trp  
       65                            70

<210> 193  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (11)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (15)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 193  
 Met Thr Leu Leu Ile Ile Phe Leu Pro Phe Xaa Phe Thr Thr Xaa Thr

1                    5                    10                    15  
 Asn Ser Gly Gly Ser Phe Pro Val Arg  
                   20                    25

<210> 194

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (21)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 194

Met Lys Gly Glu Leu Leu Pro Phe Leu Phe Leu Thr Val Trp Leu Trp  
   1                  5                  10                  15

Leu Tyr Lys Leu Xaa Phe Gly Glu Ser Pro Arg Tyr Pro Asn Val Ile  
                   20                  25                  30

Gly Lys Thr Tyr Phe Phe Phe Trp Thr Asp Gln Ile Ser Arg Glu Ser  
                   35                  40                  45

Arg Phe Leu Glu Arg Leu Ala Phe Ile Val Ser Glu Asn Cys Leu Ile  
   50                  55                  60

Phe Leu Ile His Ala Ile Thr Gly Gln  
   65                  70

<210> 195

<211> 289

<212> PRT

<213> Homo sapiens

<400> 195

Met Ser Gly Phe Ser Thr Glu Glu Arg Ala Ala Pro Phe Ser Leu Glu  
   1                  5                  10                  15

Tyr Arg Val Phe Leu Lys Asn Glu Lys Gly Gln Tyr Ile Ser Pro Phe  
                   20                  25                  30

His Asp Ile Pro Ile Tyr Ala Asp Lys Asp Val Phe His Met Val Val  
                   35                  40                  45

Glu Val Pro Arg Trp Ser Asn Ala Lys Met Glu Ile Ala Thr Lys Asp  
   50                  55                  60

Pro Leu Asn Pro Ile Lys Gln Asp Val Lys Lys Gly Lys Leu Arg Tyr  
   65                  70                  75                  80

Val Ala Asn Leu Phe Pro Tyr Lys Gly Tyr Ile Trp Asn Tyr Gly Ala  
                   85                  90                  95

Ile Pro Gln Thr Trp Glu Asp Pro Gly His Asn Asp Lys His Thr Gly  
                   100                  105                  110

Cys Cys Gly Asp Asn Asp Pro Ile Asp Val Cys Glu Ile Gly Ser Lys  
   115                  120                  125

Val Cys Ala Arg Gly Glu Ile Ile Gly Val Lys Val Leu Gly Ile Leu  
 130 135 140

Ala Met Ile Asp Glu Gly Glu Thr Asp Trp Lys Val Ile Ala Ile Asn  
 145 150 155 160

Val Asp Asp Pro Asp Ala Ala Asn Tyr Asn Asp Ile Asn Asp Val Lys  
 165 170 175

Arg Leu Lys Pro Gly Tyr Leu Glu Ala Thr Val Asp Trp Phe Arg Arg  
 180 185 190

Tyr Lys Val Pro Asp Gly Lys Pro Glu Asn Glu Phe Ala Phe Asn Ala  
 195 200 205

Glu Phe Lys Asp Lys Asp Phe Ala Ile Asp Ile Ile Lys Ser Thr His  
 210 215 220

Asp His Trp Lys Ala Leu Val Thr Lys Lys Thr Asn Gly Lys Gly Ile  
 225 230 235 240

Ser Cys Met Asn Thr Thr Leu Ser Glu Ser Pro Phe Lys Cys Asp Pro  
 245 250 255

Asp Ala Ala Arg Ala Ile Val Asp Ala Leu Pro Pro Pro Cys Glu Ser  
 260 265 270

Ala Cys Thr Val Pro Thr Asp Val Asp Lys Trp Phe His His Gln Lys  
 275 280 285

Asn

<210> 196  
 <211> 624  
 <212> PRT  
 <213> Homo sapiens

<400> 196  
 Met Glu Ile Pro Gly Ser Leu Cys Lys Lys Val Lys Leu Ser Asn Asn  
 1 5 10 15

Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val Thr Tyr Gln Ala  
 20 25 30

His His Val Ser Arg Asn Lys Arg Gly Gln Val Val Gly Thr Arg Gly  
 35 40 45

Gly Phe Arg Gly Cys Thr Val Trp Leu Thr Gly Leu Ser Gly Ala Gly  
 50 55 60

Lys Thr Thr Val Ser Met Ala Leu Glu Glu Tyr Leu Val Cys His Gly  
 65 70 75 80

Ile Pro Cys Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn  
 85 90 95

Lys Asn Leu Gly Phe Ser Pro Glu Asp Arg Glu Glu Asn Val Arg Arg  
 100 105 110

Ile Ala Glu Val Ala Lys Leu Phe Ala Asp Ala Gly Leu Val Cys Ile  
 115 120 125

Thr Ser Phe Ile Ser Pro Tyr Thr Gln Asp Arg Asn Asn Ala Arg Gln

130					135					140					
Ile	His	Glu	Gly	Ala	Ser	Leu	Pro	Phe	Phe	Glu	Val	Phe	Val	Asp	Ala
145					150					155					160
Pro	Leu	His	Val	Cys	Glu	Gln	Arg	Asp	Val	Lys	Gly	Leu	Tyr	Lys	Lys
				165					170					175	
Ala	Arg	Ala	Gly	Glu	Ile	Lys	Gly	Phe	Thr	Gly	Ile	Asp	Ser	Glu	Tyr
			180					185					190		
Glu	Lys	Pro	Glu	Ala	Pro	Glu	Leu	Val	Leu	Lys	Thr	Asp	Ser	Cys	Asp
		195					200					205			
Val	Asn	Asp	Cys	Val	Gln	Gln	Val	Val	Glu	Leu	Leu	Gln	Glu	Arg	Asp
	210					215					220				
Ile	Val	Pro	Val	Asp	Ala	Ser	Tyr	Glu	Val	Lys	Glu	Leu	Tyr	Val	Pro
225					230					235					240
Glu	Asn	Lys	Leu	His	Leu	Ala	Lys	Thr	Asp	Ala	Glu	Thr	Leu	Pro	Ala
				245					250					255	
Leu	Lys	Ile	Asn	Lys	Val	Asp	Met	Gln	Trp	Val	Gln	Val	Leu	Ala	Glu
			260					265					270		
Gly	Trp	Ala	Thr	Pro	Leu	Asn	Gly	Phe	Met	Arg	Glu	Arg	Glu	Tyr	Leu
		275					280					285			
Gln	Cys	Leu	His	Phe	Asp	Cys	Leu	Leu	Asp	Gly	Gly	Val	Ile	Asn	Leu
	290					295					300				
Ser	Val	Pro	Ile	Val	Leu	Thr	Ala	Thr	His	Glu	Asp	Lys	Glu	Arg	Leu
305					310					315					320
Asp	Gly	Cys	Thr	Ala	Phe	Ala	Leu	Met	Tyr	Glu	Gly	Arg	Arg	Val	Ala
				325					330					335	
Ile	Leu	Arg	Asn	Pro	Glu	Phe	Phe	Glu	His	Arg	Lys	Glu	Glu	Arg	Cys
			340					345					350		
Ala	Arg	Gln	Trp	Gly	Thr	Thr	Cys	Lys	Asn	His	Pro	Tyr	Ile	Lys	Met
		355					360					365			
Val	Met	Glu	Gln	Gly	Asp	Trp	Leu	Ile	Gly	Gly	Asp	Leu	Gln	Val	Leu
	370					375					380				
Asp	Arg	Val	Tyr	Trp	Asn	Asp	Gly	Leu	Asp	Gln	Tyr	Arg	Leu	Thr	Pro
385					390					395					400
Thr	Glu	Leu	Lys	Gln	Lys	Phe	Lys	Asp	Met	Asn	Ala	Asp	Ala	Val	Phe
				405					410					415	
Ala	Phe	Gln	Leu	Arg	Asn	Pro	Val	His	Asn	Gly	His	Ala	Leu	Leu	Met
			420					425					430		
Gln	Asp	Thr	His	Lys	Gln	Leu	Leu	Glu	Arg	Gly	Tyr	Arg	Arg	Pro	Val
		435				440						445			
Leu	Leu	Leu	His	Pro	Leu	Gly	Gly	Trp	Thr	Lys	Asp	Asp	Asp	Val	Pro
		450				455					460				
Leu	Met	Trp	Arg	Met	Lys	Gln	His	Ala	Ala	Val	Leu	Glu	Glu	Gly	Val
465					470					475					480
Leu	Asn	Pro	Glu	Thr	Thr	Val	Val	Ala	Ile	Phe	Pro	Ser	Pro	Met	Met



	485		490		495										
Tyr	Ala	Gly	Pro	Thr	Glu	Val	Gln	Trp	His	Cys	Arg	Ala	Arg	Met	Val
			500					505					510		
Ala	Gly	Ala	Asn	Phe	Tyr	Ile	Val	Gly	Arg	Asp	Pro	Ala	Gly	Met	Pro
		515					520					525			
His	Pro	Glu	Thr	Gly	Lys	Asp	Leu	Tyr	Glu	Pro	Ser	His	Gly	Ala	Lys
	530					535					540				
Val	Leu	Thr	Met	Ala	Pro	Gly	Leu	Ile	Thr	Leu	Glu	Ile	Val	Pro	Phe
545					550					555					560
Arg	Val	Ala	Ala	Tyr	Asn	Lys	Lys	Lys	Lys	Arg	Met	Asp	Tyr	Tyr	Asp
				565					570					575	
Ser	Glu	His	His	Glu	Asp	Phe	Glu	Phe	Ile	Ser	Gly	Thr	Arg	Met	Arg
			580					585					590		
Lys	Leu	Ala	Arg	Glu	Gly	Gln	Lys	Pro	Pro	Glu	Gly	Phe	Met	Ala	Pro
		595					600					605			
Lys	Ala	Trp	Thr	Val	Leu	Thr	Glu	Tyr	Tyr	Lys	Ser	Leu	Glu	Lys	Ala
	610					615					620				

<210> 197  
 <211> 649  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (555)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (557)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (558)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 197															
Met	Ser	Ala	Ser	Gln	Asp	Leu	Glu	Pro	Lys	Pro	Leu	Phe	Pro	Lys	Pro
1				5					10					15	
Ala	Phe	Gly	Gln	Lys	Pro	Pro	Leu	Ser	Thr	Glu	Asn	Ser	His	Glu	Asp
			20					25					30		
Glu	Ser	Pro	Met	Lys	Asn	Val	Ser	Ser	Lys	Gly	Ser	Pro	Ala	Pro	
		35					40				45				
Leu	Gly	Val	Arg	Ser	Lys	Ser	Gly	Pro	Leu	Lys	Pro	Ala	Arg	Glu	Asp
	50				55						60				

Ser Glu Asn Lys Asp His Ala Gly Glu Ile Ser Ser Leu Pro Phe Pro  
 65 70 75 80  
 Gly Val Val Leu Lys Pro Ala Ala Ser Arg Gly Gly Pro Gly Leu Ser  
 85 90 95  
 Lys Asn Gly Glu Glu Lys Lys Glu Asp Arg Lys Ile Asp Ala Ala Lys  
 100 105 110  
 Asn Thr Phe Gln Ser Lys Ile Asn Gln Glu Glu Leu Ala Ser Gly Thr  
 115 120 125  
 Pro Pro Ala Arg Phe Pro Lys Ala Pro Ser Lys Leu Thr Val Gly Gly  
 130 135 140  
 Pro Trp Gly Gln Ser Gln Glu Lys Glu Lys Gly Asp Lys Asn Ser Ala  
 145 150 155 160  
 Thr Pro Lys Gln Lys Pro Leu Pro Pro Leu Phe Thr Leu Gly Pro Pro  
 165 170 175  
 Pro Pro Lys Pro Asn Arg Pro Pro Asn Val Asp Leu Thr Lys Phe His  
 180 185 190  
 Lys Thr Ser Ser Gly Asn Ser Thr Ser Lys Gly Gln Thr Ser Tyr Ser  
 195 200 205  
 Thr Thr Ser Leu Pro Pro Pro Pro Pro Ser His Pro Ala Ser Gln Pro  
 210 215 220  
 Pro Leu Pro Ala Ser His Pro Ser Gln Pro Pro Val Pro Ser Leu Pro  
 225 230 235 240  
 Pro Arg Asn Ile Lys Pro Pro Phe Asp Leu Lys Ser Pro Val Asn Glu  
 245 250 255  
 Asp Asn Gln Asp Gly Val Thr His Ser Asp Gly Ala Gly Asn Leu Asp  
 260 265 270  
 Glu Glu Gln Asp Ser Glu Gly Glu Thr Tyr Glu Asp Ile Glu Ala Ser  
 275 280 285  
 Lys Glu Arg Glu Lys Lys Arg Glu Lys Glu Glu Lys Lys Arg Leu Glu  
 290 295 300  
 Leu Glu Lys Lys Glu Gln Lys Glu Lys Glu Lys Lys Glu Gln Glu Ile  
 305 310 315 320  
 Lys Lys Lys Phe Lys Leu Thr Gly Pro Ile Gln Val Ile His Leu Ala  
 325 330 335  
 Lys Ala Cys Cys Asp Val Lys Gly Gly Lys Asn Glu Leu Ser Phe Lys  
 340 345 350  
 Gln Gly Glu Gln Ile Glu Ile Ile Arg Ile Thr Asp Asn Pro Glu Gly  
 355 360 365  
 Lys Trp Leu Gly Arg Thr Ala Arg Gly Ser Tyr Gly Tyr Ile Lys Thr  
 370 375 380  
 Thr Ala Val Glu Ile Asp Tyr Asp Ser Leu Lys Leu Lys Lys Asp Ser  
 385 390 395 400  
 Leu Gly Ala Pro Ser Arg Pro Ile Glu Asp Asp Gln Glu Val Tyr Asp  
 405 410 415

100  
 110  
 120  
 130  
 140  
 150  
 160  
 170  
 180  
 190  
 200  
 210  
 220  
 230  
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 250  
 260  
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 300  
 310  
 320  
 330  
 340  
 350  
 360  
 370  
 380  
 390  
 400  
 410

Asp Val Ala Glu Gln Asp Asp Ile Ser Ser His Ser Gln Ser Gly Ser  
                   420                                  425                                  430  
 Gly Gly Ile Phe Pro Pro Pro Pro Asp Asp Asp Ile Tyr Asp Gly Ile  
                   435                                  440                                  445  
 Glu Glu Glu Asp Ala Asp Asp Gly Ser Thr Leu Gln Val Gln Glu Lys  
                   450                                  455                                  460  
 Ser Asn Thr Trp Ser Trp Gly Ile Leu Lys Met Leu Lys Gly Lys Asp  
                   465                                  470                                  475                                  480  
 Asp Arg Lys Lys Ser Ile Arg Glu Lys Pro Lys Val Ser Asp Ser Asp  
                                   485                                  490                                  495  
 Asn Asn Glu Gly Ser Ser Phe Pro Ala Pro Pro Lys Gln Leu Asp Met  
                                   500                                  505                                  510  
 Gly Asp Glu Val Tyr Asp Asp Val Asp Thr Ser Asp Phe Pro Val Ser  
                                   515                                  520                                  525  
 Ser Ala Glu Met Ser Gln Gly Thr Asn Val Gly Lys Ala Lys Thr Glu  
                   530                                  535                                  540  
 Glu Lys Asp Leu Lys Lys Leu Lys Lys Gln Xaa Lys Xaa Xaa Lys Asp  
                   545                                  550                                  555                                  560  
 Phe Arg Lys Lys Phe Lys Tyr Asp Gly Glu Ile Arg Val Leu Tyr Ser  
                                   565                                  570                                  575  
 Thr Lys Val Thr Thr Ser Ile Thr Ser Lys Lys Trp Gly Thr Arg Asp  
                                   580                                  585                                  590  
 Leu Gln Val Lys Pro Gly Glu Ser Leu Glu Val Ile Gln Thr Thr Asp  
                   595                                  600                                  605  
 Asp Thr Lys Val Leu Cys Arg Asn Glu Glu Gly Lys Tyr Gly Tyr Val  
                   610                                  615                                  620  
 Leu Arg Ser Tyr Leu Ala Asp Asn Asp Gly Glu Ile Tyr Asp Asp Ile  
                   625                                  630                                  635                                  640  
 Ala Asp Gly Cys Ile Tyr Asp Asn Asp  
                                   645

<210> 198  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 198  
 Met Ala Trp Pro Ser Arg Ser Lys Met Phe Thr Leu Leu Pro Val Leu  
   1                                  5                                  10                                  15  
 Cys Tyr Leu Trp Ser Leu Trp Leu Pro Gln Phe Ser Trp Ile Gln Glu  
                   20                                  25                                  30  
 Leu Lys Ala Val Leu Arg Asp Asp Gly Leu Ile Ser Ala Val Ala Trp  
                   35                                  40                                  45  
 Asn Ala Glu Phe Gln Thr Cys  
   50                                  55

<210> 199  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Val Lys Val Thr Phe Asn Ser Ala Leu Ala Gln Lys Glu Ala Lys  
 1 5 10 15  
 Lys Asp Glu Pro Lys Ser Gly Glu Glu Ala Leu Ile Ile Pro Pro Asp  
 20 25 30  
 Ala Val Ala Val Asp Cys Lys Asp Pro Asp Asp Val Val Pro Val Gly  
 35 40 45  
 Gln Arg Arg Ala Trp Cys Trp Cys Met Cys Phe Gly Leu Ala Phe Met  
 50 55 60  
 Leu Ala Gly Val Ile Leu Gly Gly Ala Tyr Leu Tyr Lys Tyr Phe Ala  
 65 70 75 80  
 Leu Gln Pro Asp Asp Val Tyr Tyr Cys Gly Ile Lys Tyr Ile Lys Asp  
 85 90 95  
 Asp Val Ile Leu Asn Glu Pro Ser Ala Asp Ala Pro Ala Ala Leu Tyr  
 100 105 110  
 Gln Thr Ile Glu Glu Asn Ile Lys Ile Phe Glu Glu Glu Glu Val Glu  
 115 120 125  
 Phe Ile Ser Val Pro Val Pro Glu Phe Ala Asp Ser Asp Pro Ala Asn  
 130 135 140  
 Ile Val His Asp Phe Asn Lys Lys Leu Thr Ala Tyr Leu Asp Leu Asn  
 145 150 155 160  
 Leu Asp Lys Cys Tyr Val Ile Pro Leu Asn Thr Ser Ile Val Met Pro  
 165 170 175  
 Pro Arg Asn Leu Leu Glu Leu Leu Ile Asn Ile Lys Ala Gly Thr Tyr  
 180 185 190  
 Leu Pro Gln Ser Tyr Leu Ile His Glu His Met Val Ile Thr Asp Arg  
 195 200 205  
 Ile Glu Asn Ile Asp His Leu Gly Phe Phe Ile Tyr Arg Leu Cys His  
 210 215 220  
 Asp Lys Glu Thr Tyr Lys Leu Gln Arg Arg Glu Thr Ile Lys Gly Ile  
 225 230 235 240  
 Gln Lys Arg Glu Ala Ser Asn Cys Phe Ala Ile Arg His Phe Glu Asn  
 245 250 255  
 Lys Phe Ala Val Glu Thr Leu Ile Cys Ser  
 260 265

<210> 200  
 <211> 315  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 200

Met Asp Leu Arg Gln Phe Leu Met Cys Leu Ser Leu Cys Thr Ala Phe  
 1 5 10 15  
 Ala Leu Ser Lys Pro Thr Glu Lys Lys Asp Arg Val His His Glu Pro  
 20 25 30  
 Gln Leu Ser Asp Lys Val His Asn Asp Ala Gln Ser Phe Asp Tyr Asp  
 35 40 45  
 His Asp Ala Phe Leu Gly Ala Glu Glu Ala Lys Thr Phe Asp Gln Leu  
 50 55 60  
 Thr Pro Glu Glu Ser Lys Glu Arg Leu Gly Lys Ile Val Ser Lys Ile  
 65 70 75 80  
 Asp Gly Asp Lys Asp Gly Phe Val Thr Val Asp Glu Leu Lys Asp Trp  
 85 90 95  
 Ile Lys Phe Ala Gln Lys Arg Trp Ile Tyr Glu Asp Val Glu Arg Gln  
 100 105 110  
 Trp Lys Gly His Asp Leu Asn Glu Asp Gly Leu Val Ser Trp Glu Glu  
 115 120 125  
 Tyr Lys Asn Ala Thr Tyr Gly Tyr Val Leu Asp Asp Pro Asp Pro Asp  
 130 135 140  
 Asp Gly Phe Asn Tyr Lys Gln Met Met Val Arg Asp Glu Arg Arg Phe  
 145 150 155 160  
 Lys Met Ala Asp Lys Asp Gly Asp Leu Ile Ala Thr Lys Glu Glu Phe  
 165 170 175  
 Thr Ala Phe Leu His Pro Glu Glu Tyr Asp Tyr Met Lys Asp Ile Val  
 180 185 190  
 Val Gln Glu Thr Met Glu Asp Ile Asp Lys Asn Ala Asp Gly Phe Ile  
 195 200 205  
 Asp Leu Glu Glu Tyr Ile Gly Asp Met Tyr Ser His Asp Gly Asn Thr  
 210 215 220  
 Asp Glu Pro Glu Trp Val Lys Thr Glu Arg Glu Gln Phe Val Glu Phe  
 225 230 235 240  
 Arg Asp Lys Asn Arg Asp Gly Lys Met Asp Lys Glu Glu Thr Lys Asp  
 245 250 255  
 Trp Ile Leu Pro Ser Asp Tyr Asp His Ala Glu Ala Glu Ala Arg His  
 260 265 270  
 Leu Val Tyr Glu Ser Asp Gln Asn Lys Asp Gly Lys Leu Thr Lys Glu  
 275 280 285  
 Glu Ile Val Asp Lys Tyr Asp Leu Phe Val Gly Ser Gln Ala Thr Asp  
 290 295 300  
 Phe Gly Glu Ala Leu Val Arg His Asp Glu Phe  
 305 310 315

&lt;210&gt; 201

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

Met Phe Asp Ala Val Leu Ile Leu Leu Leu Ile Pro Leu Lys Asp Lys  
 1 5 10 15  
 Leu Val Asp Pro Ile Leu Arg Arg His Gly Leu Leu Pro Ser Ser Leu  
 20 25 30  
 Lys Arg Ile Ala Val Gly Met Phe Phe Val Met Cys Ser Ala Phe Ala  
 35 40 45  
 Ala Gly Ile Leu Glu Ser Lys Arg Leu Asn Leu Val Lys Glu Lys Thr  
 50 55 60  
 Ile Asn Gln Thr Ile Gly Asn Val Val Tyr His Ala Ala Asp Leu Ser  
 65 70 75 80  
 Leu Trp Trp Gln Val Pro Gln Tyr Leu Leu Ile Gly Ile Ser Glu Ile  
 85 90 95  
 Phe Ala Ser Ile Ala Gly Leu Glu Phe Ala Tyr Ser Ala Ala Pro Lys  
 100 105 110  
 Ser Met Gln Ser Ala Ile Met Gly Leu Phe Phe Phe Phe Ser Gly Val  
 115 120 125  
 Gly Ser Phe Val Gly Ser Gly Leu Leu Ala Leu Val Ser Ile Lys Ala  
 130 135 140  
 Ile Gly Trp Met Ser Ser His Thr Asp Phe Gly Asn Ile Asn Gly Cys  
 145 150 155 160  
 Tyr Leu Asn Tyr Tyr Phe Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr  
 165 170 175  
 Leu Leu Leu Phe Leu Ile Ile Ser Val Lys Tyr Asp His His Arg Asp  
 180 185 190  
 His Gln Arg Ser Arg Ala Asn Gly Val Pro Thr Ser Arg Arg Ala  
 195 200 205

&lt;210&gt; 202

&lt;211&gt; 195

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 202

Met Arg Ser Arg Ile Arg Glu Phe Asp Ser Ser Thr Leu Asn Glu Ser  
 1 5 10 15  
 Val Arg Asn Thr Ile Met Arg Asp Leu Lys Ala Val Gly Lys Lys Phe  
 20 25 30  
 Met His Val Leu Tyr Pro Arg Lys Ser Asn Thr Leu Leu Arg Asp Trp  
 35 40 45  
 Asp Leu Trp Gly Pro Leu Ile Leu Cys Val Thr Leu Ala Leu Met Leu  
 50 55 60  
 Gln Arg Asp Ser Ala Asp Ser Glu Lys Asp Gly Gly Pro Gln Phe Ala  
 65 70 75 80  
 Glu Val Phe Val Ile Val Trp Phe Gly Ala Val Thr Ile Thr Leu Asn

85 90 95  
 Ser Lys Leu Leu Gly Gly Asn Ile Ser Phe Phe Gln Ser Leu Cys Val  
 100 105 110  
 Leu Gly Tyr Cys Ile Leu Pro Leu Thr Val Ala Met Leu Ile Cys Arg  
 115 120 125  
 Leu Val Leu Leu Ala Asp Pro Gly Pro Val Asn Phe Met Val Arg Leu  
 130 135 140  
 Phe Val Val Ile Val Met Phe Ala Trp Ser Ile Val Ala Ser Thr Ala  
 145 150 155 160  
 Phe Leu Ala Asp Ser Gln Pro Pro Asn Arg Arg Ala Leu Ala Val Tyr  
 165 170 175  
 Pro Val Phe Leu Phe Tyr Phe Val Ile Ser Trp Met Ile Leu Thr Phe  
 180 185 190  
 Thr Pro Gln  
 195  
 <210> 203  
 <211> 330  
 <212> PRT  
 <213> Homo sapiens  
 <400> 203  
 Met Ala Lys Asp Gln Ala Val Glu Asn Ile Leu Val Ser Pro Val Val  
 1 5 10 15  
 Val Ala Ser Ser Leu Gly Leu Val Ser Leu Gly Gly Lys Ala Thr Thr  
 20 25 30  
 Ala Ser Gln Ala Lys Ala Val Leu Ser Ala Glu Gln Leu Arg Asp Glu  
 35 40 45  
 Glu Val His Ala Gly Leu Gly Glu Leu Leu Arg Ser Leu Ser Asn Ser  
 50 55 60  
 Thr Ala Arg Asn Val Thr Trp Lys Leu Gly Ser Arg Leu Tyr Gly Pro  
 65 70 75 80  
 Ser Ser Val Ser Phe Ala Asp Asp Phe Val Arg Ser Ser Lys Gln His  
 85 90 95  
 Tyr Asn Cys Glu His Ser Lys Ile Asn Phe Arg Asp Lys Arg Ser Ala  
 100 105 110  
 Leu Gln Ser Ile Asn Glu Trp Ala Ala Gln Thr Thr Asp Gly Lys Leu  
 115 120 125  
 Pro Glu Val Thr Lys Asp Val Glu Arg Thr Asp Gly Ala Leu Leu Val  
 130 135 140  
 Asn Ala Met Phe Phe Lys Pro His Trp Asp Glu Lys Phe His His Lys  
 145 150 155 160  
 Met Val Asp Asn Arg Gly Phe Met Val Thr Arg Ser Tyr Thr Val Gly  
 165 170 175  
 Val Met Met Met His Arg Thr Gly Leu Tyr Asn Tyr Tyr Asp Asp Glu  
 180 185 190

203  
 330  
 PRT  
 Homo sapiens  
 203

Lys Glu Lys Leu Gln Ile Val Glu Met Pro Leu Ala His Lys Leu Ser  
 195 200 205  
 Ser Leu Ile Ile Leu Met Pro His His Val Glu Pro Leu Glu Arg Leu  
 210 215 220  
 Glu Lys Leu Leu Thr Lys Glu Gln Leu Lys Ile Trp Met Gly Lys Met  
 225 230 235 240  
 Gln Lys Lys Ala Val Ala Ile Ser Leu Pro Lys Gly Val Val Glu Val  
 245 250 255  
 Thr His Asp Leu Gln Lys His Leu Ala Gly Leu Gly Leu Thr Glu Ala  
 260 265 270  
 Ile Asp Lys Asn Lys Ala Asp Leu Ser Arg Met Ser Gly Lys Lys Asp  
 275 280 285  
 Leu Tyr Leu Ala Ser Val Phe His Ala Thr Ala Phe Glu Leu Asp Thr  
 290 295 300  
 Asp Gly Asn Pro Leu Thr Arg Ile Thr Gly Gly Gly Val Arg Thr Gln  
 305 310 315 320  
 Val Phe Tyr Ala Asp His Pro Phe Ile Ser  
 325 330

<210> 204  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Met Cys Met Gln Leu Phe Gly Phe Leu Ala Phe Met Ile Phe Met Cys  
 1 5 10 15  
 Trp Val Gly Asp Val Tyr Pro Val Tyr Gln Pro Val Gly Pro Lys Gln  
 20 25 30  
 Tyr Pro Tyr Asn Asn Leu Tyr Leu Glu Arg Gly Gly Asp Pro Ser Lys  
 35 40 45  
 Glu Pro Glu Arg Val Val His Tyr Glu Ile  
 50 55

<210> 205  
 <211> 392  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Met Asp Ala Leu Val Glu Asp Asp Ile Cys Ile Leu Asn His Glu Lys  
 1 5 10 15  
 Ala His Lys Arg Asp Thr Val Thr Pro Val Ser Ile Tyr Ser Gly Asp  
 20 25 30  
 Glu Ser Val Ala Ser His Phe Ala Leu Val Thr Ala Tyr Glu Asp Ile  
 35 40 45  
 Lys Lys Arg Leu Lys Asp Ser Glu Lys Glu Asn Ser Leu Leu Lys Lys





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<400> 209
Met Ser Lys Arg Ser Ala Ser Phe Ile Leu Leu Pro Leu Leu Phe Leu
  1      5      10      15
Lys Gly Ser Phe Ala Lys Leu Asn Ala Arg Ile Ser Asp Cys Leu Glu
      20      25      30

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Glu Arg Tyr Cys His Asn Leu Trp Met Val Phe Gln Gly Cys Val Ile  
                   35                  40                  45  
 Thr Glu Leu His Leu Ser Arg Met Ser Lys Thr Leu Ser Ser Leu Cys  
           50                  55                  60  
 Tyr Asp Phe Val Ile Asn Val Tyr Ile Phe Phe Lys Phe Leu Asp Ile  
   65                  70                  75                  80  
 Thr

<210> 210  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Met Cys Ser Leu Phe Glu Ser Arg Phe Phe Cys Phe Val Leu Phe Ser  
   1                  5                  10                  15  
 Glu Lys Ile Ile Gln Leu Cys Ala Ser Ile Ala Phe Leu Cys Phe Val  
                   20                  25                  30  
 Lys His Val Pro Trp Pro Lys Trp Lys Arg Lys Cys Leu Ile Asn Ala  
                   35                  40                  45  
 Phe

<210> 211  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu  
   1                  5                  10                  15  
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu  
                   20                  25                  30  
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu  
                   35                  40                  45  
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr  
   50                  55                  60  
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg  
   65                  70                  75                  80  
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu  
                   85                  90                  95  
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile  
                   100                  105                  110  
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val  
   115                  120                  125  
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile

130                      135                      140  
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val  
 145                      150                      155                      160  
 Gly Met Ala Met Val Pro Pro Ser Trp Ala Ser Leu Gly Ile Thr Tyr  
                     165                      170                      175  
 Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro Lys Arg Ser Ser Arg Lys  
                     180                      185                      190  
 Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn Lys  
                     195                      200

<210> 212

<211> 186

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (122)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (136)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (142)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 212

Met Lys Thr Leu Met Thr Ile Cys Pro Gly Thr Val Leu Leu Val Phe  
   1                    5                    10                    15

Ser Ile Ser Leu Trp Ile Ile Ala Ala Trp Thr Val Arg Val Cys Glu  
                     20                    25                    30

Ser Pro Glu Ser Pro Ala Gln Pro Ser Gly Ser Ser Leu Pro Ala Trp  
                     35                    40                    45

Tyr His Asp Gln Gln Asp Val Thr Ser Asn Phe Leu Gly Ala Met Trp  
                     50                    55                    60

Leu Ile Ser Ile Thr Phe Leu Ser Ile Gly Tyr Gly Asp Met Val Pro  
   65                    70                    75                    80

His Thr Tyr Cys Gly Lys Gly Val Cys Leu Leu Thr Gly Ile Met Gly  
                     85                    90                    95

Ala Gly Cys Thr Ala Leu Val Val Ala Val Val Ala Arg Lys Leu Glu  
                     100                    105                    110

Leu Thr Lys Ala Glu Lys His Val His Xaa Phe Met Met Asp Thr Gln  
                     115                    120                    125

Leu Thr Lys Arg Ile Lys Asn Xaa Ala Ala Asn Val Leu Xaa Glu Thr  
   130                    135                    140

Trp Leu Ile Tyr Lys His Thr Lys Leu Leu Lys Lys Ile Asp His Ala  
145 150 155 160

Lys Val Arg Asn Thr Arg Gly Ser Ser Ser Lys Tyr Pro Pro Val Glu  
165 170 175

Glu Arg Gln Asp Gly Thr Glu Glu Ala Glu  
180 185

<210> 213

<211> 90

<212> PRT

<213> Homo sapiens

<400> 213

Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu  
1 5 10 15

Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro  
20 25 30

Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala  
35 40 45

Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala  
50 55 60

Ala Ser Thr Thr Ala Arg Lys Asp Ile Pro Val Leu Pro Lys Trp Val  
65 70 75 80

Gly Asp Leu Pro Asn Gly Arg Val Cys Pro  
85 90

<210> 214

<211> 48

<212> PRT

<213> Homo sapiens

<400> 214

Met Ser Ser Ala Ala Ala Asp His Trp Ala Trp Leu Leu Val Leu Ser  
1 5 10 15

Phe Val Phe Gly Cys Asn Val Leu Arg Ile Leu Leu Pro Ser Phe Ser  
20 25 30

Ser Phe Met Ser Arg Val Leu Gln Lys Asp Ala Asp Arg Ser His Arg  
35 40 45

<210> 215

<211> 70

<212> PRT

<213> Homo sapiens

<400> 215

Met Thr Ala Pro Leu Pro Pro Leu Ser Gly Leu Ala Leu Phe Leu Ile  
1 5 10 15

Val Phe Phe Ser Leu Gly Val Phe Cys Ile Cys His Ser His Trp Tyr  
                   20                  25                  30  
 His Thr Leu Gln Gln Met Ala Gly Thr Glu Pro Lys Ala Leu Leu Leu  
                   35                  40                  45  
 Ser Pro Pro Ala Ala Thr Thr Phe Val Thr Val Thr His Glu Val Trp  
                   50                  55                  60  
 Lys Glu Gln Ala Leu Ala  
                   65                  70

<210> 216  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 216  
 Met Thr Cys Ser Val Ala Leu Leu Leu Ile Leu Gly Leu Arg Cys Ser  
           1                  5                  10                  15  
 Gly Val Arg Pro Gly Leu Val Gly Glu Gly His Asn Pro Ser Leu Leu  
                   20                  25                  30  
 Val Cys Leu Leu Leu Lys Asp Ser Arg Thr Asn Gln Gly Ser Cys Pro  
                   35                  40                  45  
 Gly Gly Pro Trp Ser Glu Arg Asp Ile Glu Ser Val Thr Ser Asp Asn  
           50                  55                  60  
 Cys Glu Ala Thr Leu Gly Tyr Arg Asn His Ser Leu Pro Ser Asn Tyr  
           65                  70                  75                  80  
 Tyr Asn Ser

<210> 217  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 217  
 Met Leu Thr Arg Ser Leu Lys Thr Leu Pro Ser Ala Cys Thr Ala Phe  
           1                  5                  10                  15  
 Leu Leu Leu Phe Phe Leu Phe Ser Ser Gly Asp Pro Glu Leu Ser Cys  
                   20                  25                  30  
 Ser Cys Thr Leu Arg Thr Gln Ser Ser Trp Ser  
           35                  40

<210> 218  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (140)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (145)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (146)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (148)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>

<221> MISC\_FEATURE

<222> (165)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 218

Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
1 5 10 15

Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
20 25 30

Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
35 40 45

Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
50 55 60

Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
65 70 75 80

Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val  
85 90 95

Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His  
100 105 110

Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg  
115 120 125

Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Xaa Thr Tyr Gly His  
130 135 140

Xaa Xaa Pro Xaa Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr  
145 150 155 160

Lys Lys Met Leu Xaa Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln  
165 170 175

Asp Gly Asp Ser Met Ala Thr Arg  
180

<210> 219  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (40)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (51)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (55)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 219  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
           1                  5                  10                  15  
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu  
                   20                  25                  30  
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly  
                   35                  40                  45  
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu  
           50                  55                  60  
 Thr Ala Pro Ile Met Trp Pro  
       65                  70

<210> 220  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met His Val Phe Val Leu Glu Ile Phe Leu  
       1                  5                  10

<210> 221  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Ala Val Ala Thr Leu Ala Ser Glu Thr Leu Pro Leu Leu Ala Leu  
       1                  5                  10                  15  
 Thr Phe Ile Thr Asp Asn Ser Leu Val Ala Ala Gly His Asp Cys Phe  
           20                  25                  30  
 Pro Val Leu Phe Thr Tyr Asp Ala Ala Ala Gly Met Leu Ser Phe Gly



35                      40                      45  
 Gly Arg Leu Asp Val Pro Lys Gln Ser Ser Gln Arg Gly Leu Thr Ala  
     50                      55                      60  
 Arg Glu Arg Phe Gln Asn Leu Asp Lys Lys Ala Ser Ser Glu Gly Gly  
     65                      70                      75                      80  
 Thr Ala Ala Gly Ala Gly Leu Asp Ser Leu His Lys Asn Ser Val Ser  
                     85                      90                      95  
 Gln Ile Ser Val Leu Ser Gly Gly Lys Ala Lys Cys Ser Gln Phe Cys  
                     100                      105                      110  
 Thr Thr Gly Met Asp Gly Gly Met Ser Ile Trp Asp Val Lys Ser Leu  
                     115                      120                      125  
 Glu Ser Ala Leu Lys Asp Leu Lys Ile Lys  
     130                      135

<210> 222  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val  
     1                      5                      10

<210> 223  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Leu Gly Ser Leu Ser Thr Ala Pro Ser Ser Ala Leu Pro Thr Leu Gly  
     1                      5                      10                      15  
 Ala Arg Arg Thr Arg Ser Lys  
                     20

<210> 224  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 224  
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp  
     1                      5                      10                      15  
 Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Val  
                     20                      25                      30  
 Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met  
                     35                      40                      45  
 Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys Thr  
     50                      55                      60

Ala Pro

65

<210> 225  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Gly Lys Pro Thr Gly Lys Ser Leu Pro Leu Met Trp Met Ile Leu Met  
           1                  5                  10                  15  
 Gln Pro Ile Ile Met Ile Ser Met Met Ser Asn Gly  
                   20                  25

<210> 226  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 226  
 Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr  
           1                  5                  10                  15  
 Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp  
                   20                  25                  30  
 Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser  
           35                  40                  45  
 Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys  
           50                  55                  60

<210> 227  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 227  
 Met Met Glu Arg Ser Met Met Ile Leu Leu Met Ala Ala Ser Met Thr  
           1                  5                  10                  15  
 Met Thr Ser Thr Gln Leu Trp Ser Phe Cys Cys Val His  
           20                  25

<210> 228  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 228  
 Met Trp Tyr Gln Leu Ala Lys Glu Glu Pro Gly Val Gly Ala Cys Ala  
           1                  5                  10                  15  
 Leu Asp

<210> 229

<211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 229  
 Met Leu Ile Cys Arg Leu Val Leu Leu Ala Asp Pro Gly Pro Val Asn  
   1                  5                  10                  15  
 Phe Met Val Arg Leu Phe Val Val Ile Val Met Phe Ala Trp Ser Ile  
                   20                  25                  30  
 Val Ala Ser Thr Ala Phe Leu Ala Asp Ser Gln Pro Pro Asn Arg Arg  
           35                  40                  45  
 Ala Leu Ala Val Tyr Pro Val Phe Leu Phe Tyr Phe Val Ile Ser Trp  
   50                  55                  60  
 Met Ile Leu Thr Phe Thr Pro Gln  
   65                  70

<210> 230  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (47)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins  
 <220>  
 <221> MISC\_FEATURE  
 <222> (121)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 230  
 Met Arg Ser Leu Leu Leu Leu Ser Ala Phe Cys Leu Leu Glu Ala Ala  
   1                  5                  10                  15  
 Leu Ala Ala Glu Val Lys Lys Pro Ala Ala Ala Ala Ala Pro Gly Thr  
                   20                  25                  30  
 Ala Glu Lys Leu Ser Pro Lys Ala Ala Thr Leu Ala Glu Arg Xaa Arg  
           35                  40                  45  
 Pro Gly Leu Gln Leu Val Pro Gly His Gly Gln Gly Pro Gly Ser Gly  
   50                  55                  60  
 Glu His Pro Gly Val Thr Arg Gly Gly Gly Leu Val Ala Gly Ala Arg  
   65                  70                  75                  80  
 Val Ala Gly Arg Gln Gly Asp His Gly Val Ala Gly Gln Gly Ser Ala  
                   85                  90                  95  
 Glu Arg Arg Ala Ala Ala Arg Arg Gly Gly Ala Arg Arg Pro Gly Arg  
           100                  105                  110  
 Ala Ala Ala Leu Thr Gln Gln Leu Xaa Gly Ala Gln Arg Asp Leu Glu  
   115                  120                  125  
 Ala Gly Gln Pro Thr Val Arg Thr Gln Leu Ser Glu Leu Arg

130

135

140

<210> 231  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 231  
 Asp Pro Glu Ala Ala Asp Ser Gly Glu Pro Gln Asn Lys Arg Thr Pro  
 1 5 10 15  
 Asp Leu Pro Glu Glu Glu Tyr Val Lys Glu Glu Ile Gln Glu Asn Glu  
 20 25 30  
 Glu Ala Val Lys Lys Met Leu Val Glu Ala Thr Arg Glu Phe Glu Glu  
 35 40 45  
 Val Val Val Asp Glu Ser  
 50

<210> 232  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Gln Lys Leu Lys Arg Lys Ala Glu Glu Asp Pro Glu Ala Ala Asp Ser  
 1 5 10 15  
 Gly Glu Pro Gln Asn Lys Arg Thr Pro Asp Leu Pro Glu Glu Glu Tyr  
 20 25 30  
 Val Lys Glu Glu Ile Gln Glu Asn Glu Glu Ala Val Lys Lys Met Leu  
 35 40 45  
 Val Glu Ala Thr Arg Glu Phe Glu Glu Val Val Val Asp Glu Ser  
 50 55 60

<210> 233  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Lys Ala Met Glu Lys Ser Ser Leu Thr Gln His Ser Trp Gln Ser Leu  
 1 5 10 15  
 Lys Asp Arg Tyr Leu Lys His Leu Arg Gly Gln Glu His Lys Tyr Leu  
 20 25 30  
 Leu Gly Asp Ala Pro Val Ser Pro Ser Ser Gln Lys Leu Lys Arg Lys  
 35 40 45  
 Ala Glu Glu Asp Pro Glu Ala Ala Asp Ser Gly Glu Pro Gln Asn Lys  
 50 55 60  
 Arg Thr Pro Asp Leu Pro Glu Glu Glu Tyr Val Lys Glu Glu Ile Gln  
 65 70 75 80  
 Glu Asn Glu Glu Ala Val Lys Lys Met Leu Val Glu Ala Thr Arg Glu

85 90 95  
 Phe Glu Glu Val Val Val Asp Glu Ser Pro Pro Asp Phe Glu Ile His  
 100 105 110

Ile

<210> 234  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr Ile  
 1 5 10 15  
 Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp Phe  
 20 25 30  
 Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met Leu  
 35 40 45  
 Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu Ser  
 50 55 60  
 Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser Gly  
 65 70 75 80  
 Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser Thr  
 85 90 95  
 Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val Phe  
 100 105 110  
 Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr Ala  
 115 120 125  
 Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr Arg  
 130 135 140  
 Val Leu Phe Ile  
 145

<210> 235  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Ala Gly Arg Tyr Gly Ala Ile Ser Gly Phe Gly Leu Ser Leu Ile Lys  
 1 5 10 15  
 Trp Ile Leu Ile Val Arg Phe Ser  
 20

<210> 236  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 236

Met Lys His Leu Ser Ala Trp Asn Phe Thr Lys Leu Thr Phe Leu Gln  
 1 5 10 15  
 Leu Trp Glu Ile Phe Glu Gly Ser Val Glu Asn Cys Gln Thr Leu Thr  
 20 25 30  
 Ser Tyr Ser Lys Leu Gln Ile Lys Tyr Thr Phe Ser Arg Gly Ser Thr  
 35 40 45  
 Phe Tyr Ile  
 50

&lt;210&gt; 237

&lt;211&gt; 213

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

Phe Ser Ser Asp Phe Arg Thr Ser Pro Trp Glu Ser Arg Arg Val Glu  
 1 5 10 15  
 Ser Lys Ala Thr Ser Ala Arg Cys Gly Leu Trp Gly Ser Gly Pro Arg  
 20 25 30  
 Arg Arg Pro Ala Ser Gly Met Phe Arg Gly Leu Ser Ser Trp Leu Gly  
 35 40 45  
 Leu Gln Gln Pro Val Ala Gly Gly Gly Gln Pro Asn Gly Asp Ala Pro  
 50 55 60  
 Pro Glu Gln Pro Ser Glu Thr Val Ala Glu Ser Ala Glu Glu Glu Leu  
 65 70 75 80  
 Gln Gln Ala Gly Asp Gln Glu Leu Leu His Gln Ala Lys Asp Phe Gly  
 85 90 95  
 Asn Tyr Leu Phe Asn Phe Ala Ser Ala Ala Thr Lys Lys Ile Thr Glu  
 100 105 110  
 Ser Val Ala Glu Thr Ala Gln Thr Ile Lys Lys Ser Val Glu Glu Gly  
 115 120 125  
 Lys Ile Asp Gly Ile Ile Asp Lys Thr Ile Ile Gly Asp Phe Gln Lys  
 130 135 140  
 Glu Gln Lys Lys Phe Val Glu Glu Gln His Thr Lys Lys Ser Glu Ala  
 145 150 155 160  
 Ala Val Pro Pro Trp Val Asp Thr Asn Asp Glu Glu Thr Ile Gln Gln  
 165 170 175  
 Gln Ile Leu Ala Leu Ser Ala Asp Lys Arg Asn Phe Leu Arg Asp Pro  
 180 185 190  
 Pro Ala Gly Val Gln Phe Asn Phe Asp Phe Asp Gln Met Tyr Pro Val  
 195 200 205  
 Ala Leu Val Met Leu  
 210

&lt;210&gt; 238

<211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 238  
 Met Arg Phe Ala Leu Val Pro Lys Leu Val Lys Glu Glu Val Phe Trp  
           1                  5                  10                  15  
 Arg Asn Tyr Phe Tyr Arg Val Ser Leu Ile Lys Gln Ser Ala Gln Leu  
                   20                  25                  30  
 Thr Ala Leu Ala Ala Gln Gln Gln Ala Ala Gly Lys Gly Gly Glu Glu  
           35                  40                  45  
 Gln

<210> 239  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 239  
 Ser Thr Ser Pro Gly Val Ser Glu Phe Val Ser Asp Ala Phe Asp Ala  
           1                  5                  10                  15  
 Cys Asn Leu Asn Gln Glu Asp Leu Arg Lys Glu Met Glu Gln Leu Val  
                   20                  25                  30  
 Leu Asp Lys Lys Gln Glu Glu Thr Ala Val Leu Glu Glu Asp Ser Ala  
           35                  40                  45  
 Asp Trp Glu Lys Glu Leu Gln Gln Glu Leu Gln Glu Tyr Glu Val Val  
           50                  55                  60  
 Thr Glu Ser Glu Lys Arg Asp Glu Asn Trp Asp Lys  
           65                  70                  75

<210> 240  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Ser Pro Trp Glu Ser Arg Arg Val Glu Ser Lys Ala Thr Ser Ala Arg  
           1                  5                  10                  15  
 Cys Gly Leu Trp Gly Ser Gly Pro Arg Arg Arg Pro Ala Ser Gly Met  
                   20                  25                  30  
 Phe Arg Gly Leu Ser Ser Trp Leu Gly Leu Gln Gln Pro Val Ala Gly  
           35                  40                  45  
 Gly Gly Gln Pro Asn Gly Asp Ala Pro Pro Glu Gln Pro Ser  
           50                  55                  60

<210> 241  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 241

Pro Val Ala Gly Gly Gly Gln Pro Asn Gly Asp Ala Pro Pro Glu Gln  
 1 5 10 15  
 Pro Ser Glu Thr Val Ala Glu Ser Ala Glu Glu Glu Leu Gln Gln Ala  
 20 25 30  
 Gly Asp Gln Glu Leu Leu His Gln Ala Lys Asp Phe Gly Asn Tyr Leu  
 35 40 45  
 Phe Asn Phe Ala Ser Ala Ala Thr Lys Lys Ile Thr Glu Ser Val Ala  
 50 55 60  
 Glu  
 65

&lt;210&gt; 242

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Phe Gln Lys Glu Gln Lys Lys Phe Val Glu Glu Gln His Thr Lys Lys  
 1 5 10 15  
 Ser Glu Ala Ala Val Pro Pro Trp Val Asp Thr Asn Asp Glu Glu Thr  
 20 25 30  
 Ile Gln Gln Gln Ile Leu Ala Leu Ser Ala Asp Lys Arg Asn Phe Leu  
 35 40 45  
 Arg Asp Pro Pro Ala Gly Val Gln Phe Asn Phe Asp Phe Asp Gln Met  
 50 55 60  
 Tyr Pro Val Ala Leu Val Met Leu  
 65 70

&lt;210&gt; 243

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

Pro Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser  
 1 5 10 15  
 Pro Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala  
 20 25

&lt;210&gt; 244

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Lys Glu Asp Pro Ala Asn Thr Val Tyr Ser Thr Val Glu Ile Pro Lys  
 1 5 10 15



Lys Met Glu Asn Pro His Ser Leu Leu Thr Met Pro Asp Thr Pro Arg  
                   20                                  25                                  30

Leu

<210> 245  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Ala Ser Ala Val Leu Leu Asp Leu Pro Asn Ser Gly Gly Glu Ala Gln  
   1                  5                                  10                                  15  
 Ala Lys Lys Leu Gly Asn Asn Cys Val Phe Ala Pro Ala Asp Val Thr  
                   20                                  25                                  30  
 Ser Glu Lys Asp Val Gln Thr Ala Leu Ala Leu Ala Lys Gly Lys Phe  
                   35                                  40                                  45  
 Gly Arg Val Asp Val Ala Val Asn Cys Ala Gly Ile Ala Val Ala Ser  
                   50                                  55                                  60  
 Lys Thr Tyr Asn Leu Lys Lys Gly Gln Thr His Thr Leu Glu Asp Phe  
                   65                                  70                                  75                                  80  
 Gln Arg Val Leu Asp Val Asn Leu Met Gly Thr Phe Asn Val Ile Arg  
                   85                                  90                                  95  
 Leu Val Ala Gly Glu Met Gly Gln Asn Glu Pro Asp Gln Gly Gly Gln  
                   100                                  105                                  110  
 Arg Gly Val Ile Ile Asn Thr Ala Ser Val Ala Ala Phe Glu Gly Gln  
                   115                                  120                                  125  
 Val Gly Gln Ala Ala Tyr Ser Ala Ser Lys Gly Gly Ile Val Gly Met  
                   130                                  135                                  140  
 Thr Leu Pro Ile Ala Arg Asp Leu Ala Pro Ile Gly Ile Arg Val Met  
                   145                                  150                                  155                                  160  
 Thr Ile Ala Pro Gly Leu Phe Gly Thr Pro Leu Leu Thr Ser Leu Pro  
                   165                                  170                                  175  
 Glu Lys Val Cys Asn Phe Leu Ala Ser Gln Val Pro Phe Pro Ser Arg  
                   180                                  185                                  190  
 Leu Gly Asp Pro Ala Glu Tyr Ala His Leu Val Gln Ala Ile Ile Glu  
                   195                                  200                                  205  
 Asn Pro Phe Leu Asn Gly Glu Val Ile Arg Leu Asp Gly Ala Ile Arg  
                   210                                  215                                  220  
 Met Gln Pro  
 225

<210> 246  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens



<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (11)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 251

Met Glu Arg Arg Cys Lys Met His Lys Arg Xaa Ile Ala Met Leu Glu  
1 5 10 15

Pro Leu Thr Val Asp Leu Asn Pro Gln  
20 25

<210> 252

<211> 23

<212> PRT

<213> Homo sapiens

<400> 252

Ser His Ile Val Lys Lys Ile Asn Asn Leu Asn Lys Ser Ala Leu Lys  
1 5 10 15

Tyr Tyr Gln Leu Phe Leu Asp  
20

<210> 253

<211> 64

<212> PRT

<213> Homo sapiens

<400> 253

Phe Thr His Leu Ser Thr Cys Leu Leu Ser Leu Leu Leu Val Arg Met  
1 5 10 15

Ser Gly Phe Leu Leu Leu Ala Arg Ala Ser Pro Ser Ile Cys Ala Leu  
20 25 30

Asp Ser Ser Cys Phe Val Gln Glu Tyr Cys Ser Ser Tyr Ser Ser Ser  
35 40 45

Cys Phe Leu His Gln His Phe Pro Ser Leu Leu Asp His Leu Cys Gln  
50 55 60

<210> 254

<211> 23

<212> PRT

<213> Homo sapiens

<400> 254

Phe Leu Leu Leu Ala Arg Ala Ser Pro Ser Ile Cys Ala Leu Asp Ser  
1 5 10 15

Ser Cys Phe Val Gln Glu Tyr

20

<210> 255  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
 Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr Asp Gln  
   1                  5                  10                  15  
 Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu Thr Asp  
                   20                  25                  30  
 Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr Leu Gly  
                   35                  40                  45  
 Leu Asn Leu Asn Ser  
                   50

<210> 256  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Glu Asp Leu Leu Phe Tyr Leu Tyr Tyr Met Asn Gly Gly Asp Val Leu  
   1                  5                  10                  15  
 Gln Leu Leu Ala Ala Val Glu Leu Phe Asn Arg Asp Trp Arg Tyr His  
                   20                  25                  30  
 Lys Glu Glu Arg Val Trp Ile Thr Arg  
                   35                  40

<210> 257  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 257  
 Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr Leu Gly Leu Asn Leu  
   1                  5                  10                  15  
 Asn Ser Pro Glu Asn Leu Tyr Pro  
                   20

<210> 258  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 258  
 Glu Asp Leu Leu Phe Tyr Leu Tyr Tyr Met Asn Gly Gly Asp Val Leu  
   1                  5                  10                  15  
 Gln Leu Leu Ala Ala Val Glu Leu Phe Asn Arg Asp Trp Arg Tyr His  
                   20                  25                  30

Lys Glu Glu Arg Val Trp Ile Thr Arg  
           35                  40

<210> 259  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 259  
 His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser  
       1                  5                  10

<210> 260  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 260  
 Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu  
       1                  5                  10                  15  
 Leu Gly Gln Lys Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp  
                   20                  25                  30  
 Met Cys Val Gly Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala  
           35                  40                  45  
 Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val  
       50                  55                  60  
 Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile Arg  
       65                  70                  75

<210> 261  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 261  
 Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser  
       1                  5                  10                  15

<210> 262  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Cys Glu Ser Pro Glu Ser Pro Ala Gln Pro Ser Gly Ser Ser Leu Pro  
       1                  5                  10                  15

Ala Trp Tyr His  
           20

<210> 263  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 263  
 Glu Glu Ala Gly Ala Gly Arg Arg Cys Ser His Gly Gly Ala Arg Pro  
 1 5 10 15  
 Ala Gly Leu Gly Asn Glu Gly Leu Gly Leu Gly Gly Asp Pro Asp His  
 20 25 30  
 Thr Asp Thr Gly Ser Arg Ser Lys Gln Arg Ile Asn Asn Trp Lys Glu  
 35 40 45  
 Ser Lys His Lys Val Ile Met Ala Ser Ala Ser Ala Arg Gly Asn Gln  
 50 55 60  
 Asp Lys Asp Ala His Phe Pro Pro Pro Ser Lys Gln Ser Leu Leu Phe  
 65 70 75 80  
 Cys Pro Lys Ser Lys Leu His Ile His Arg Ala Glu Ile Ser Lys  
 85 90 95

<210> 264  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 264  
 Ser Lys Gln Arg Ile Asn Asn Trp Lys Glu Ser Lys His Lys Val Ile  
 1 5 10 15  
 Met Ala Ser Ala Ser Ala Arg  
 20

<210> 265  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (20)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 265  
 Leu Phe His Trp Ala Cys Leu Asn Glu Arg Ala Ala Gln Leu Pro Arg  
 1 5 10 15  
 Asn Thr Ala Xaa Ala Gly Tyr Gln Cys Pro Ser Cys Asn Gly Pro Ser  
 20 25 30

<210> 266  
 <211> 185

<212> PRT  
 <213> Homo sapiens

<400> 266

Phe Tyr Ile Tyr Tyr Arg Pro Thr Asp Ser Asp Asn Asp Ser Asp Tyr  
 1 5 10 15  
 Lys Lys Asp Met Val Glu Gly Asp Lys Tyr Trp His Ser Ile Ser His  
 20 25 30  
 Leu Gln Pro Glu Thr Ser Tyr Asp Ile Lys Met Gln Cys Phe Asn Glu  
 35 40 45  
 Gly Gly Glu Ser Glu Phe Ser Asn Val Met Ile Cys Glu Thr Lys Ala  
 50 55 60  
 Arg Lys Ser Ser Gly Gln Pro Gly Arg Leu Pro Pro Pro Thr Leu Ala  
 65 70 75 80  
 Pro Pro Gln Pro Pro Leu Pro Glu Thr Ile Glu Arg Pro Val Gly Thr  
 85 90 95  
 Gly Ala Met Val Ala Arg Ser Ser Asp Leu Pro Tyr Leu Ile Val Gly  
 100 105 110  
 Val Val Leu Gly Ser Ile Val Leu Ile Ile Val Thr Phe Ile Pro Phe  
 115 120 125  
 Cys Leu Trp Arg Ala Trp Ser Lys Gln Lys His Thr Thr Asp Leu Gly  
 130 135 140  
 Phe Pro Arg Ser Ala Leu Pro Pro Ser Cys Pro Tyr Thr Met Val Pro  
 145 150 155 160  
 Leu Gly Gly Leu Pro Gly His Gln Ala Val Asp Ser Pro Thr Ser Val  
 165 170 175  
 Ala Ser Val Asp Gly Pro Val Leu Met  
 180 185

<210> 267  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 267

Tyr Ile Tyr Tyr Arg Pro Thr Asp Ser Asp Asn Asp Ser Asp Tyr Lys  
 1 5 10 15  
 Lys Asp Met Val Glu Gly Asp Lys Tyr Trp His Ser Ile Ser His Leu  
 20 25 30  
 Gln Pro Glu Thr Ser Tyr Asp Ile Lys Met Gln Cys Phe Asn Glu Gly  
 35 40 45  
 Gly Glu Ser Glu Phe Ser Asn Val Met Ile Cys Glu Thr Lys Ala Arg  
 50 55 60  
 Lys Ser  
 65

<210> 268

<211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 268  
 Asn Val Arg Ala Leu Leu His Arg Met Pro Glu Pro Pro Lys Ile Asn  
   1                  5                  10                  15  
 Thr Ala Lys Phe Asn Asn Asn Lys Arg Lys Asn Leu Ser Leu  
                   20                  25                  30

<210> 269  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 269  
 Asn Thr Asn Gln Arg Glu Ala Leu Gln Tyr Ala Lys Asn Phe Gln Pro  
   1                  5                  10                  15  
 Phe Ala Leu Asn His Gln Lys Asp Ile Gln Val Leu Met Gly Ser Leu  
                   20                  25                  30  
 Val Tyr Leu Arg Gln Gly Ile Glu Asn Ser Pro Tyr Val His Leu Leu  
                   35                  40                  45  
 Asp Ala Asn Gln Trp Ala Asp Ile Cys Asp Ile Phe Thr Arg Asp Ala  
   50                  55                  60  
 Cys Ala Leu Leu Gly Leu Ser Val Glu Ser Pro Leu Ser Val Ser Phe  
   65                  70                  75                  80  
 Ser Ala Gly Cys Val Ala Leu Pro Ala Leu Ile Asn Ile Lys Ala Val  
                   85                  90                  95  
 Ile Glu Gln Arg Gln Cys Thr Gly Val Trp Asn Gln Lys Asp Glu Leu  
                   100                  105                  110  
 Pro Ile Glu Val Asp Leu Gly Lys Lys Cys Trp Tyr His Ser Ile Phe  
                   115                  120                  125  
 Ala Cys Pro Ile Leu Arg Gln Gln Thr Thr Asp Asn Asn Pro Pro Met  
   130                  135                  140  
 Lys Leu Val Cys Gly His Ile Ile Ser Arg Asp Ala Leu Asn Lys Met  
   145                  150                  155                  160  
 Phe Asn Gly Ser Lys Leu Lys Cys Pro Tyr Cys Pro Met Glu Gln Ser  
                   165                  170                  175  
 Pro Gly Asp Ala Lys Gln Ile Phe Phe  
                   180                  185

<210> 270  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 270  
 Ser Tyr Leu Ser Ala Cys Phe Ala Gly Cys Asn Ser Thr Asn Leu Thr  
   1                  5                  10                  15

136



Gly Cys Ala Cys Leu Thr Thr Val Pro Ala Glu Asn Ala Thr Val Val  
                   20                  25                  30  
 Pro Gly Lys Cys Pro Ser Pro Gly Cys Gln Glu Ala Phe Leu Thr Phe  
                   35                  40                  45  
 Leu Cys Val Met Cys Ile Cys Ser Leu Ile Gly Ala Met Ala Arg His  
           50                  55                  60  
 Pro  
   65

<210> 271  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Pro Ser Val Ile Ile Leu Ile Arg Thr Val Ser Pro Glu Leu Lys Ser  
   1                  5                  10                  15  
 Tyr Ala Leu Gly Val Leu Phe Leu Leu Leu Arg Leu Leu Gly Phe Ile  
                   20                  25                  30  
 Pro Pro Pro Leu Ile Phe Gly Ala Gly Ile Asp Ser Thr Cys Leu Phe  
                   35                  40                  45  
 Trp Ser Thr Phe Cys Gly Glu Gln Gly Ala Cys Val Leu Tyr Asp Asn  
   50                  55                  60  
 Val Val Tyr Arg Tyr Leu Tyr Val Ser Ile Ala Ile Ala Leu Lys Ser  
   65                  70                  75                  80  
 Phe Ala Phe Ile

<210> 272  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (29)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<220>  
 <221> MISC\_FEATURE  
 <222> (30)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 272  
 Gln Ser Leu Phe Thr Arg Phe Val Arg Val Gly Val Pro Thr Val Asp  
   1                  5                  10                  15  
 Leu Asp Ala Gln Gly Arg Ala Arg Ala Ser Leu Cys Xaa Xaa Tyr Asn  
           20                  25                  30  
 Trp Arg Tyr Lys Asn Leu Gly Asn Leu Pro His Val Gln Leu Leu Pro

35                      40                      45  
 Glu Phe Ser Thr Ala Asn Ala Gly Leu Leu Tyr Asp Phe Gln Leu Ile  
     50                      55                      60  
 Asn Val Glu Asp Phe Gln Gly Val Gly Glu Ser Glu Pro Asn Pro Tyr  
     65                      70                      75                      80  
 Phe Tyr Gln Asn Leu Gly Glu Ala Glu Tyr Val Val Ala Leu Phe Met  
                     85                      90                      95  
 Tyr Met Cys Leu Leu Gly Tyr Pro Ala Asp Lys Ile Ser Ile Leu Thr  
                     100                      105                      110  
 Thr Tyr Asn Gly Gln Lys His Leu Ile Arg Asp Ile Ile Asn Arg Arg  
                     115                      120                      125  
 Cys Gly Asn Asn Pro Leu Ile Gly Arg Pro Asn Lys Val Thr Thr Val  
                     130                      135                      140  
 Asp Arg Phe Gln Gly Gln Gln Asn Asp Tyr Ile Leu Leu Ser Leu Val  
     145                      150                      155                      160  
 Arg Thr Arg Ala Val Gly His Leu Arg Asp Val Arg Arg Leu Val Val  
                     165                      170                      175  
 Ala Met Ser Arg Ala Arg  
                     180

<210> 273  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Leu Val Lys Glu Ala Lys Ile Ile Ala Met Thr Cys Thr His Ala Ala  
     1                      5                      10                      15  
 Leu Lys Arg His Asp Leu Val Lys Leu Gly Phe Lys Tyr Asp Asn Ile  
                     20                      25                      30  
 Leu Met Glu Glu Ala Ala Gln Ile Leu Glu Ile Glu Thr Phe Ile Pro  
                     35                      40                      45  
 Leu Leu Leu Gln Asn Pro Gln Asp Gly Phe Ser Arg Leu Lys Arg Trp  
     50                      55                      60  
 Ile Met Ile Gly Asp His His Gln Leu Pro Pro Val Ile  
     65                      70                      75

<210> 274  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (16)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins  
 <220>  
 <221> MISC\_FEATURE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

&lt;400&gt; 274

Asp	Thr	Tyr	Pro	Asn	Glu	Glu	Lys	Gln	Gln	Glu	Arg	Val	Phe	Pro	Xaa
1				5				10						15	

Xaa	Ser	Ala	Met	Val	Asn	Asn	Gly	Ser	Leu	Ser	Tyr	Asp	His	Glu	Arg
		20						25					30		

Asp	Gly	Arg	Pro	Thr	Glu	Leu	Gly	Gly	Cys	Xaa	Ala	Ile	Val	Arg	Asn
		35					40					45			

Leu	His	Tyr	Asp	Thr	Phe	Leu	Val	Ile	Arg	Tyr	Val	Lys	Arg	His	Leu
	50					55					60				

Thr	Ile	Met	Met	Asp	Ile	Asp	Gly	Lys	His	Glu	Trp	Arg	Asp	Cys	Ile
	65				70					75					80

Glu	Val	Pro	Gly	Val	Arg	Leu	Pro	Arg	Gly	Tyr	Tyr	Phe	Gly	Thr	Ser
				85					90					95	

Ser	Ile	Thr	Gly	Asp	Leu	Ser	Asp	Asn	His	Asp	Val	Ile	Ser	Leu	Lys
			100					105					110		

Leu	Phe	Glu	Leu	Thr	Val	Glu	Arg	Thr	Pro	Glu	Glu	Glu
		115					120					125

&lt;210&gt; 275

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

Leu	Lys	Arg	Glu	His	Ser	Leu	Ser	Lys	Pro	Tyr	Gln	Gly	Val	Gly	Thr
1				5					10					15	

Gly	Ser	Ser	Ser	Leu	Trp	Asn	Leu	Met	Gly	Asn	Ala	Met	Val	Met	Thr
			20					25					30		

Gln	Tyr	Ile	Arg	Leu	Thr	Pro	Asp	Met	Gln	Ser	Lys	Gln	Gly	Ala	Leu
		35					40					45			

Trp	Asn	Arg	Val	Pro	Cys	Phe	Leu	Arg	Asp	Trp	Glu	Leu	Gln	Val	His
	50					55					60				

Phe	Lys	Ile	His	Gly	Gln	Gly	Lys	Lys	Asn	Leu	His	Gly	Asp	Gly	Leu
	65				70					75					80

Ala	Ile	Trp	Tyr	Thr
				85

&lt;210&gt; 276

&lt;211&gt; 32

&lt;212&gt; PRT

<213> Homo sapiens

<400> 276

Pro Gly Thr Leu Gln Cys Ser Ala Leu His His Asp Pro Gly Cys Ala  
 1 5 10 15  
 Asn Cys Ser Arg Phe Cys Arg Asp Cys Ser Pro Pro Ala Cys Gln Cys  
 20 25 30

<210> 277

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (8)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 277

Phe Leu Tyr Asp Val Leu Met Xaa His Glu Ala Val Met Arg Thr His  
 1 5 10 15  
 Gln Ile Gln Leu Pro Asp Pro Glu Phe Pro Ser  
 20 25

<210> 278

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (4)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 278

Pro Ala Asp Xaa Lys Pro Val Val Ser Thr Glu Ala Pro Pro Ile Ile  
 1 5 10 15  
 Phe Ala Thr Pro Thr Lys Leu Thr Ser Asp Ser Thr Val Tyr Asp Tyr  
 20 25 30  
 Ala Gly Lys Asn Lys Val Pro Glu Leu Gln Lys Phe Phe Gln Lys Ala  
 35 40 45  
 Asp Gly Val Pro Val Tyr Leu Lys Arg Gly Leu Pro Asp Gln Met Leu  
 50 55 60  
 Tyr Arg Thr Thr Met Ala Leu Thr Val Gly Gly Thr Ile Tyr Cys Leu  
 65 70 75 80  
 Ile Ala Leu Tyr Met Ala Ser Gln Pro Lys Asn Lys  
 85 90

<210> 279  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (45)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 279  
 Ser Phe Ser Gly Ala Val Ala Leu Ala Ala Asp Ala Gly Ser Arg Thr  
 1 5 10 15  
 Leu Gly Val Met Tyr Tyr Lys Phe Ser Gly Phe Thr Gln Lys Leu Ala  
 20 25 30  
 Gly Ala Trp Ala Ser Glu Ala Tyr Ser Pro Gln Ile Xaa Ser Leu Trp  
 35 40 45  
 Phe Pro Gln Lys His His Leu Ser Tyr Leu Pro His Gln Leu Asn  
 50 55 60

<210> 280  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Gly Trp Tyr Trp Cys Gly  
 1 5

<210> 281  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 281  
 Met Lys Val Gly Ala Arg Ile Arg Val Lys Met Ser Val Asn Lys Ala  
 1 5 10 15  
 His Pro Val Val Ser Thr His Trp Arg Trp Pro Ala Glu Trp Pro Gln  
 20 25 30  
 Met Phe Leu His Leu Ala Gln Glu Pro Arg Thr Glu Val Lys Ser Arg  
 35 40 45  
 Pro Leu Gly Leu Ala Gly Phe Ile Arg Gln Asp Ser Lys Thr Arg Lys  
 50 55 60  
 Pro Leu Glu Gln Glu Thr Ile Met Ser Ala Ala Asp Thr Ala Leu Trp  
 65 70 75 80  
 Pro Tyr Gly His Gly Asn Arg Glu His Gln Glu Asn Glu Leu Gln Lys  
 85 90 95  
 Tyr Leu Gln Tyr Lys Asp Met His Leu Leu Asp Ser Gly Gln Ser Leu  
 100 105 110  
 Gly His Thr His Thr Leu Gln Gly Ser His Asn Leu Thr Ala Leu Asn

115

120

125

Ile

&lt;210&gt; 282

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

Ser	Leu	His	Lys	Asn	Ser	Val	Ser	Gln	Ile	Ser	Val	Leu	Ser	Gly	Gly
1				5					10					15	

Lys	Ala	Lys	Cys	Ser	Gln	Phe	Cys	Thr	Thr	Gly	Met	Asp	Gly	Gly	Met
			20					25					30		

Ser	Ile	Trp	Asp	Val	Lys	Ser	Leu	Glu	Ser	Ala	Leu	Lys	Asp	Leu	Lys
		35					40					45			

Ile

&lt;210&gt; 283

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

Glu	Ala	Ser	Lys	Ser	Ser	His	Ala	Gly	Leu	Asp	Leu	Phe	Ser	Val	Ala
1				5					10					15	

Ala	Cys	His	Arg	Phe
			20	

&lt;210&gt; 284

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Tyr	Met	Gly	Lys	Gly	Ser	Met	Thr	Gly	Leu	Ala	Leu	Lys	His	Met	Phe
1				5					10					15	

Glu	Arg	Ser	Phe	Thr
			20	

&lt;210&gt; 285

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

Val	Thr	Gly	Ile	Ile	Asp	Ser	Leu	Thr	Ile	Ser	Pro	Lys	Ala	Ala	Arg
1				5					10					15	

Val	Gly	Leu	Leu	Gln	Tyr	Ser	Thr	Gln	Val	His
			20					25		

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Phe

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Cys Ser Xaa Gly Phe Val Leu Ala Glu Asp Gly Arg Arg Cys Lys Lys  
                   35                  40                  45

Cys Thr Glu Gly Pro Ile Asp Leu Val Phe Val Ile Asp Gly Ser Lys  
                   50                  55                  60

Ser Leu Gly Glu Glu Asn Phe Glu Val Val Lys Gln Phe Val Thr Gly  
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Ile Ile Asp Ser Leu Thr Ile Ser Pro Lys Ala Ala Arg Val Gly Leu



85 90 95  
 Leu Gln Tyr Ser Thr Gln Val His Thr Glu Phe Thr Leu Arg Asn Phe  
 100 105 110  
 Asn Ser Ala Lys Asp Met Lys Lys Ala Val Ala His Met Lys Tyr Met  
 115 120 125  
 Gly Lys Gly Ser Met Thr Gly Leu Ala Leu Lys His Met Phe Glu Arg  
 130 135 140  
 Ser Phe Thr Gln Gly Glu Gly Ala Arg Pro Phe Pro Gln Gly Cys Pro  
 145 150 155 160  
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 Pro Leu Glu Glu Lys His Asp Gln Cys Lys Cys Glu Asn Leu Ile Met  
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 Phe Gln Asn Leu Ala Asn Glu Glu Val Arg Lys Leu Thr Gln Arg Leu  
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 Glu Glu Met Thr Gln Arg Met Glu Ala Leu Glu Asn Arg Leu Arg Tyr  
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Arg

<210> 295  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 295  
 Met Ala Ala Leu Leu Leu Arg His Val Gly Arg His Cys Leu Arg Ala  
   1                  5                  10                  15  
 His Phe Ser Pro Gln Leu Cys Ile Arg Asn Ala Val Pro Leu Gly Thr  
           20                  25                  30  
 Thr Ala Lys Glu Glu Met Glu Arg Phe Trp Asn Lys Asn Ile Gly Ser  
           35                  40                  45  
 Asn Arg Pro Leu Ser Pro His Ile Thr Ile Tyr Ser  
   50                  55                  60

<210> 296  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 296  
 Val Phe Pro Leu Met Tyr His Thr Trp Asn Gly Ile Arg His Leu Met  
   1                  5                  10                  15  
 Trp Asp Leu Gly Lys Gly Leu Lys Ile Pro Gln Leu Tyr Gln Ser Gly  
           20                  25                  30

<210> 297  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 297  
 Met Ala Ala Leu Leu Leu Arg His Val Gly Arg His Cys Leu Arg Ala  
   1                  5                  10                  15  
 His

<210> 298  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 298  
 Val Lys Ser Leu Cys Leu Gly Pro Ala Leu Ile His Thr Ala Lys Phe  
   1                  5                  10                  15

Ala Leu

<210> 299  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Val Phe Pro Leu Met Tyr His Thr Trp Asn Gly Ile Arg His Leu Met  
   1                  5                  10                  15  
 Trp Asp Leu Gly Lys Gly Leu  
                   20

<210> 300  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 300  
 Arg Val Trp Asp Val Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys  
   1                  5                  10                  15  
 Ile Phe Gln Gly Asn Val  
                   20

<210> 301  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser Pro Asp Gly  
   1                  5                  10                  15  
 Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr Val  
                   20                  25                  30

<210> 302  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 Trp Asp Thr Thr Ser Arg Arg Ile Leu Tyr Lys Leu Pro Gly His Ala  
   1                  5                  10                  15  
 Gly Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile  
                   20                  25                  30

<210> 303  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 303

Tyr Gln Gly Leu Gly Leu Arg Gln Asn Lys Leu Thr Tyr Thr Met Arg  
 1 5 10 15

Gly His Ala Asp Ser Val Thr Gly Leu Ser Leu Ser Ser Glu Gly Ser  
 20 25 30

Tyr Leu Leu Ser Asn Ala Met Asp Asn Thr Val Arg Val Trp Asp Val  
 35 40 45

Arg Pro Phe Ala Pro Lys Glu Arg Cys Val Lys Ile Phe Gln Gly Asn  
 50 55 60

Val His Asn Phe Glu Lys Asn Leu Leu Arg Cys Ser Trp Ser Pro Asp  
 65 70 75 80

Gly Ser Lys Ile Ala Ala Gly Ser Ala Asp Arg Phe Val Tyr Val Trp  
 85 90 95

Asp Thr Thr Ser Arg Arg Ile Leu Tyr Lys Leu Pro Gly His Ala Gly  
 100 105 110

Ser Ile Asn Glu Val Ala Phe His Pro Asp Glu Pro Ile Ile Ile Ser  
 115 120 125

Ala Ser Ser Asp Lys Arg Leu Tyr Met Gly Glu Ile Gln  
 130 135 140

&lt;210&gt; 304

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

Arg Lys Lys Ala Ala Ile Gln Thr Phe Gln Asn Thr Tyr Gln Val Leu  
 1 5 10 15

Ala Val Thr Phe Asn Asp Thr Ser Asp Gln Ile Ile Ser Gly Gly Ile  
 20 25 30

Asp Asn Asp Ile Lys Val Trp Asp Cys Ala Arg Thr Ser  
 35 40 45

&lt;210&gt; 305

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 305

Val Arg Gly Arg Thr Val Leu Arg Pro Gly Leu Asp Ala Glu Pro Glu  
 1 5 10 15

Leu Ser Pro Glu  
 20

&lt;210&gt; 306

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 306

Glu Gln Arg Val Leu Glu Arg Lys Leu Lys Lys Glu Arg Lys Lys Glu  
 1 5 10 15

Glu Arg Gln

&lt;210&gt; 307

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 307

Arg Leu Arg Glu Ala Gly Leu Val Ala Gln His Pro Pro  
 1 5 10

&lt;210&gt; 308

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 308

Gly Arg Ile Pro Ala Pro Ala Pro Ser Val Pro Ala Gly Pro Asp Ser  
 1 5 10 15

Arg

&lt;210&gt; 309

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

Ala Arg Arg Ser Gly Ala Glu Leu Ala Trp Asp Tyr Leu Cys Arg Trp  
 1 5 10 15

Ala Gln Lys His Lys Asn Trp Arg Phe Gln Lys Thr Arg Gln Thr Trp  
 20 25 30

Leu Leu Leu His Met Tyr Asp Ser Asp Lys Val Pro Asp Glu His Phe  
 35 40 45

Ser Thr Leu Leu Ala Tyr Leu Glu Gly Leu Gln Gly Arg  
 50 55 60

&lt;210&gt; 310

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 310

Thr Gly Cys Val Leu Val Leu Ser Arg Asn Phe Val Gln Tyr Ala Cys  
 1 5 10 15

Phe Gly Leu Phe Gly Ile Ile Ala Leu Gln Thr Ile Ala Tyr Ser Ile  
 20 25 30

307 308 309 310

Leu Trp Asp Leu Lys Phe Leu Met Arg Asn  
           35                  40

<210> 311  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Ser Arg Ser Glu Gly Lys Ser Met Phe Ala Gly Val Pro Thr Met Arg  
   1                  5                  10                  15  
 Glu Ser Ser Pro Lys Gln Tyr Met Gln Leu Gly Gly Arg Val Leu Leu  
           20                  25                  30  
 Val Leu Met Phe Met Thr Leu Leu His Phe Asp Ala Ser Phe Phe Ser  
           35                  40                  45  
 Ile Val Gln Asn Ile Val Gly  
       50                  55

<210> 312  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Gly Thr Ala Glu Asp Phe Ala Asp Gln Phe Leu Arg Val Thr Lys Gln  
   1                  5                  10                  15  
 Tyr Leu Pro His Val Ala Arg Leu Cys Leu Ile Ser Thr Phe Leu Glu  
           20                  25                  30  
 Asp Gly Ile Arg Met Trp Phe Gln Trp Ser Glu Gln Arg Asp Tyr Ile  
           35                  40                  45  
 Asp Thr Thr Trp Asn Cys Gly Tyr Leu Leu Ala Ser  
       50                  55                  60

<210> 313  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Ala Ser Phe Leu Leu Ser Arg Thr Ser Trp Gly Thr Ala Leu Met Ile  
   1                  5                  10                  15  
 Leu

<210> 314  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Leu Met Arg Asn Glu Ser Arg Ser

1 5

<210> 315  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Ala Ser Phe Leu Leu Ser Arg Thr Ser Trp Gly Thr Ala  
 1 5 10

<210> 316  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 316  
 Ala Ser Phe Leu Leu Ser Arg Thr Ser Trp Gly Thr Ala Leu Met Ile  
 1 5 10 15

Leu

<210> 317  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 317  
 Pro Ser Phe Thr Leu Thr Pro Ala Ser Phe Leu Leu Ser Arg Thr Ser  
 1 5 10 15

Trp Gly Thr Ala Leu Met Ile Leu Val Ala Ile Gly Phe Lys Thr Lys  
 20 25 30

Leu Ala Ala Leu Thr Leu Val Val Trp Leu Phe Ala Ile Asn Val Tyr  
 35 40 45

Phe Asn Ala Phe Trp Thr Ile Pro Val Tyr Lys Pro Met His Asp Phe  
 50 55 60

Leu Lys Tyr Asp Phe Phe Gln Thr  
 65 70

<210> 318  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (115)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 318  
 Arg Thr Glu Pro Pro Pro Gly Thr Ser Cys Gly Gly Arg Ser Gly Cys  
 1 5 10 15

Sequence

Gly Arg Arg Arg Ala Arg Ala Ser Glu Arg Ala Ser Glu Pro Ser Arg  
                   20                  25                  30  
 Ala Ser Arg Arg Arg His Gly Pro Glu Arg Pro Asp Gly His Gly Arg  
                   35                  40                  45  
 Gly Leu Arg Arg Pro Val Pro Pro Cys His Lys Ala Val Pro Ala Pro  
           50                  55                  60  
 Arg Gly Ala Pro Leu Ser Asp Gln His Leu Pro Gly Gly Arg His Pro  
       65                  70                  75                  80  
 Tyr Val Val Pro Val Glu Arg Ala Ala Arg Leu His Arg His His Leu  
                   85                  90                  95  
 Glu Leu Arg Leu Pro Ala Gly Leu Val Leu Arg Leu Pro Gln Leu Ala  
                   100                  105                  110  
 Gly Thr Xaa Thr Gly Cys Val Leu Val Leu Ser Arg Asn Phe Val Gln  
           115                  120                  125  
 Tyr Ala Cys Phe Gly Leu Phe Gly Ile Ile Ala Leu Gln Thr Ile Ala  
       130                  135                  140  
 Tyr Ser Ile Leu Trp Asp Leu Lys Phe Leu Met Arg Asn Leu Ala Leu  
       145                  150                  155                  160  
 Gly Gly Gly Leu Leu Leu Leu Leu Ala Glu Ser Arg Ser Glu Gly Lys  
                   165                  170                  175  
 Ser Met Phe Ala Gly Val Pro Thr Met Arg Glu Ser Ser Pro Lys Gln  
           180                  185                  190  
 Tyr Met Gln Leu Gly Gly Arg Val Leu Leu Val Leu Met Phe Met Thr  
           195                  200                  205  
 Leu Leu His Phe Asp Ala Ser Phe Phe Ser Ile Val Gln Asn Ile Val  
       210                  215                  220  
 Gly His Ser Ser Asp Asp Phe Ser Gly His Trp Phe  
       225                  230                  235

&lt;210&gt; 319

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

&lt;400&gt; 319

Gly Xaa Ser Arg Arg Arg Ala Leu Pro Val Glu Ala Ala Ala Gly Ala  
       1                  5                  10                  15



Gly Ala Asp Gly Arg Glu Pro Ala Ser Glu Arg Ala Ser Arg Ala Glu  
                   20                                  25                                  30  
 Pro Pro Ala Val Ala Met Gly Gln Asn Asp Leu Met Gly Thr Ala Glu  
                   35                                  40                                  45  
 Asp Phe Ala Asp Gln Phe Leu Arg Val Thr Lys Gln Tyr Leu Pro His  
                   50                                  55                                  60  
 Val Ala Arg Leu Cys Leu Ile Ser Thr Phe Leu Glu Asp Gly Ile Arg  
                   65                                  70                                  75                                  80  
 Met Trp Phe Gln Trp Ser Glu Gln Arg Asp Tyr Ile Asp Thr Thr Trp  
                                   85                                  90                                  95  
 Asn Cys Gly Tyr Leu Leu Ala Ser Ser Phe Val Phe Leu Asn Leu Leu  
                   100                                  105                                  110

Gly Xaa

<210> 320  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 320  
 Trp Val Phe Leu Phe Leu Leu Ala Leu Gly Gly Leu Gly Pro Asp Ser  
           1                                  5                                  10                                  15  
 Gly Arg Cys Leu Cys Arg Glu Gly Arg Ile Ser Gly Ile Tyr Gln Leu  
                   20                                  25                                  30  
 Ile Leu Ala Lys Gln Phe Leu Arg Phe Phe Cys Phe Met Trp Glu Thr  
                   35                                  40                                  45  
 Asp Leu Asn Leu Ile Leu Cys Cys Ile Leu Tyr Leu Ser Cys Val  
                   50                                  55                                  60

<210> 321  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 321  
 Ser Met Ser Ala Leu Thr Arg Leu Ala Ser Phe Ala Arg Val Gly Gly  
           1                                  5                                  10                                  15  
 Arg Leu Phe Arg Ser Gly Cys Ala Arg Thr Ala Gly Asp Gly Gly Val  
                   20                                  25                                  30  
 Arg His Ala Gly Gly Gly Val His Ile Glu Pro Arg Tyr Arg Gln Phe  
                   35                                  40                                  45  
 Pro Gln Leu Thr Arg Ser Gln Val Phe Gln Ser Glu Phe Phe Ser Gly  
                   50                                  55                                  60  
 Leu Met Trp Phe Trp Ile Leu Trp Arg Phe Trp His Asp Ser Glu Glu  
                   65                                  70                                  75                                  80  
 Val Leu Gly His Phe Pro Tyr Pro Asp Pro Ser Gln Trp Thr Asp Glu  
                   85                                  90                                  95

Glu Leu Gly Ile Pro Pro Asp Asp Glu Asp  
                   100                  105

<210> 322  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 322  
 Phe Ile Ser Phe Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met  
       1                  5                  10                  15  
 Met Ser Ser Phe  
                   20

<210> 323  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Asp Pro Arg Arg Pro Asn Lys Val Leu Arg Tyr Lys Pro Pro Pro Ser  
       1                  5                  10                  15  
 Glu Cys Asn Pro Ala Leu Asp Asp Pro Thr Pro  
                   20                  25

<210> 324  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Asp Tyr Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met  
       1                  5                  10                  15  
 Leu Lys Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser  
                   20                  25                  30

<210> 325  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 325  
 Met Leu Ser Ile Ser Ala Val Val Met Ser Tyr Leu Gln Asn Pro Gln  
       1                  5                  10                  15  
 Pro Met Thr Pro Pro Trp  
                   20

<210> 326  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

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<400> 326
Ala Ala Gly Asp Gly Asp Val Lys Leu Gly Thr Leu Gly Ser Gly Ser
  1              5              10             15
Glu Ser Ser Asn Asp Gly Gly Ser Glu Ser Pro Gly Asp Ala Gly Ala
      20              25             30
Ala Ala Xaa Gly Gly Gly Trp Ala Ala Ala Ala Leu Ala Leu Leu Thr
      35              40             45
Gly Gly Gly Glu
  50

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<400> 327
Ser Thr His Ala Ser Gly Arg Ala Val Met Ala Ala Gly Asp Gly Asp
 1          5          10          15
Val Lys Leu Gly Thr Leu Gly Ser Gly Ser Glu Ser Ser Asn Asp Gly
 20          25          30
Gly Ser Glu Ser Pro Gly Asp Ala Gly Ala Ala Ala Xaa Gly Gly Gly
 35          40          45
Trp Ala Ala Ala Ala Leu Ala Leu Leu Thr Gly Gly Gly Glu
 50          55          60

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<210> 328
<211> 177
<212> PRT
<213> Homo sapiens
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<220>
<221> MISC_FEATURE
<222> (26)
<223> Xaa equals any of the L-amino acids commonly found in naturally
      occurring proteins
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<220>
<221> MISC_FEATURE
<222> (84)
<223> Xaa equals any of the L-amino acids commonly found in naturally
      occurring proteins
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<220>
<221> MISC_FEATURE
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[illegible]

<222> (111)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 328

Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg  
1 5 10 15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg  
20 25 30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln  
35 40 45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly  
50 55 60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg  
65 70 75 80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala  
85 90 95

Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala  
100 105 110

Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn  
115 120 125

Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu  
130 135 140

Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly  
145 150 155 160

Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg  
165 170 175

Asn

<210> 329

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (7)

<223> Xaa equals any of the L-amino acids commonly found in naturally occurring proteins

<400> 329

Cys Thr Leu Ala Met Trp Xaa Leu Gly His Cys Asp Pro Arg Arg Cys  
1 5 10 15

Thr Gly Arg Lys Leu Ala Arg Leu Gly Leu Val Arg Cys Leu Arg Leu  
20 25 30

Gly His Arg Phe Gly Gly Leu Val Leu Ser Pro Val Gly Lys Gln Tyr  
35 40 45

Ala Ser Pro Ala Asp Arg Gln Leu Val Ala Gln Ser Gly Val Ala Val

50 55 60  
 Ile Asp Cys Ser Trp Ala Arg Leu Asp Glu Thr Pro Phe Gly Lys  
 65 70 75

<210> 330  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 330  
 Ser Gly Arg Gly Ala Arg Ser Asp Val Thr Ala Met Ala Gly Ile Lys  
 1 5 10 15  
 Ala Leu Ile Ser Leu Ser Phe Gly Gly Ala Ile Gly Leu Met Phe Leu  
 20 25 30  
 Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp Pro Leu Phe  
 35 40 45  
 Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys Ile Ala Arg  
 50 55 60  
 Arg Leu Val Asp Asp Thr Asp Ala  
 65 70

<210> 331  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (5)  
 <223> Xaa equals any of the L-amino acids commonly found in naturally  
 occurring proteins

<400> 331  
 Ala Arg Val Arg Xaa Arg Gly Ala Leu Ser Leu Ser Val Gly Ala Ala  
 1 5 10 15  
 Cys Gly Leu Val Ala Leu Trp Gln Arg Arg Arg Gln Asp Ser Gly Thr  
 20 25 30

<210> 332  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 332  
 Leu Ser Asn Asn Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val  
 1 5 10 15  
 Thr Tyr Gln Ala His His Val Ser Arg Asn Lys Arg Gly Gln Val Val  
 20 25 30  
 Gly Thr Arg Gly Gly Phe Arg Gly Cys Thr Val Trp Leu

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45

<210> 333  
 <211> 38  
 <212> PRT  
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<400> 333  
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 Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn Lys Asn Leu  
 20 25 30  
 Gly Phe Ser Pro Glu Asp  
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<210> 334  
 <211> 39  
 <212> PRT  
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<400> 334  
 Thr Gln Asp Arg Asn Asn Ala Arg Gln Ile His Glu Gly Ala Ser Leu  
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 Pro Phe Phe Glu Val Phe Val Asp Ala Pro Leu His Val Cys Glu Gln  
 20 25 30  
 Arg Asp Val Lys Gly Leu Tyr  
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<210> 335  
 <211> 40  
 <212> PRT  
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<400> 335  
 Phe Thr Gly Ile Asp Ser Glu Tyr Glu Lys Pro Glu Ala Pro Glu Leu  
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 20 25 30  
 Val Glu Leu Leu Gln Glu Arg Asp  
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<210> 336  
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 <212> PRT  
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<400> 336  
 Ala Glu Thr Leu Pro Ala Leu Lys Ile Asn Lys Val Asp Met Gln Trp  
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 20 25 30

Arg Glu Arg Glu Tyr Leu Gln Cys Leu  
           35                          40

<210> 337  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
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Gly Cys Thr Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val  
                   20                  25                  30

<210> 338  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
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Leu Asp Gln Tyr Arg Leu Thr Pro Thr Glu Leu Lys Gln Lys Phe Lys  
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Asp Met Asn Ala Asp Ala Val  
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<210> 339  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
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Gly Tyr Arg Arg Pro Val Leu Leu Leu His Pro Leu Gly Gly Trp Thr  
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Lys Asp Asp Asp Val  
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<210> 340  
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 <212> PRT  
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<400> 340  
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Val Ala Gly Ala Asn Phe Tyr Ile Val Gly Arg Asp Pro Ala Gly Met  
                   20                  25                  30

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Gly Ser Tyr Gly Tyr Ile Lys Thr Thr Ala Val Glu Ile Xaa Tyr Asp
      20          25          30

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Ser Leu Lys Leu Lys Lys Asp Ser Leu Gly Ala Pro Ser Arg Pro Ile  
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 Glu Asp Asp Gln Glu Val Tyr Asp Asp Val Ala Glu Gln Asp Asp Ile  
           50                          55                          60  
 Ser Ser His Ser Gln Ser Gly Ser Gly Gly Ile Phe Pro Pro Pro Pro  
       65                          70                          75                          80  
 Asp Asp Asp Ile Tyr Asp Gly Ile Glu Glu Glu Asp Ala Asp Asp Gly  
                           85                          90                          95  
 Phe Pro Ala Pro Pro Lys Gln Leu Asp Met Gly Asp Glu Val Tyr Asp  
                           100                          105                          110  
 Asp Val Asp Thr Ser Asp Phe Pro Val Ser Ser Ala Glu Met Ser Gln  
                           115                          120                          125  
 Gly Thr Asn Val Gly Lys Ala Lys Thr Glu Glu Lys Asp Leu Lys Lys  
           130                          135                          140  
 Leu Lys Lys Gln Xaa Lys Glu Xaa Lys Asp Phe Arg Lys Lys Phe Lys  
       145                          150                          155                          160  
 Tyr Asp Gly Glu Ile Arg Val Leu Tyr Ser Thr Lys Val Thr Thr Ser  
                           165                          170                          175  
 Ile Thr Ser Lys Lys Trp Gly Thr Arg Asp Leu Gln Val Lys Pro Gly  
                           180                          185                          190  
 Glu Ser Leu Glu Val Ile Gln Thr Thr Asp Asp Thr Lys Val Leu Cys  
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 Arg Asn Glu Glu Gly Lys Tyr Gly Tyr Val Leu Arg Ser Tyr Leu Ala  
       210                          215                          220  
 Asp Asn Asp Gly Glu Ile Tyr Asp Asp Ile Ala Asp Gly Cys Ile Tyr  
       225                          230                          235                          240  
 Asp Asn Asp